

James Fraser Stoddart

Curriculum Vitae

Full Version

Evanston IL

March 2021

Curriculum Vitae: Full Version

NAME: James Fraser STODDART
DATE OF BIRTH: 24 May 1942
PLACE OF BIRTH: Edinburgh/Scotland
NATIONALITY: American and British
MARITAL STATUS: Widowed with 2 daughters
HOME ADDRESS: 2720 Noyes Street, Evanston, IL 60201-2072
HOME TELEPHONE: +1 847 864 0129
WORK ADDRESS: Department of Chemistry, 2145 Sheridan Road
Northwestern University, Evanston, IL 60208 USA
WORK TELEPHONE: +1 847 491 3793
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E-MAIL: stoddart@northwestern.edu



QUALIFICATIONS:

B Sc (Edinburgh) in Chemistry 1964
Ph D (Edinburgh) with Thesis entitled:
Some Studies on Plant Gums of the *Acacia* Genus
(Research Supervisors: Professor Sir Edmund Hirst & Dr D M W Anderson) 1966
C Chem FRIC (became FRSC in 1980) 1978
D Sc (Edinburgh) with Thesis entitled:
Some Adventures in Stereochemistry 1980

AWARDS / FELLOWSHIPS / LECTURESHIPS:

Hope Prize in Chemistry (Edinburgh) 1964
Carbohydrate Chemistry Award of the Chemical Society 1978
RSC Perkin Division Career Awards 1980/1/2
Middle Rhine Lecturer 1982
Leverhulme Research Fellowship 1986/7
Leverhulme Research Fellowship 1988/9
Distinguished Lecturer (18th Leermakers Symposium/USA) 1990
Pfizer Lecturer (Ohio State University/USA) 1991
Lauderman Memorial Lecture (Washington University/USA) 1991
Du Pont Lecturer (Berkeley/USA) 1991
Ernest Ritchie Memorial Lecturer (Sydney University Chemical Society/Australia) 1992
Walter J Chute Lecturer (Dalhousie University/Canada) 1992
Atlantic Coast Lecturer (University of Maryland/Virginia Polytechnic/ Duke University/University of South Carolina/University of Miami) 1993
First Janssen Lecturer (Strasbourg University/France) 1993
International Izatt-Christensen Award in Macrocyclic Chemistry 1993
Walker Memorial Lecture (Edinburgh University/Scotland) 1994
Fellowship of the Royal Society of London 1994
Chaire Bruylants Award (University of Louvain La Neuve/Belgium) 1994
Sixth Henry G Kuivila Lecturer (State University of New York, Albany/USA) 1994
Adolf Steinhof Foundation Award (University of Kaiserslautern/Germany) 1995
Sandoz Foundation Lecturer (University of Regensburg/Germany) 1995
Miles (Bayer) Lecturer (University of Cornell/USA) 1995
Abbott Lecturer (University of Chicago/USA) 1995
Wilson Baker Lecturer (University of Bristol) 1995
Regents Endowed Memorial Lecturer (University of Texas at Austin/USA) 1996
Bernard Belleau Memorial Lecturer (McGill University, Montreal/Canada) 1997
Leo H Sternbach Lecturer (Yale University/USA) 1997
Hutchison Memorial Lecturer (University of Rochester/USA) 1997
Soong Sil Lecturer (Soong Sil University, Seoul/Korea) 1997
Castle Lecturer (Brigham Young University/USA) 1998

Bio-Mega Lecturer (University of Alberta/Canada)	1998
Humboldt Fellowship	1998
Fred Pattison Senior Lecturer (University of Western Ontario, Canada)	1999
Cope Scholar Award (American Chemical Society)	1999
Fellowship of the German Academy of Natural Sciences, Leopoldina	1999
Samuel M McElvain Lecturer (University of Wisconsin at Madison)	2000
Industrial Associates Program Lecturer (Columbia University)	2000
Distinguished Visiting Scientist Series (Juniata College, Huntingdon PA)	2000
Green Lectureship (Texas Christian University)	2000
Merck Frosst Lectureship (Simon Fraser University, Vancouver)	2000
Mitchum Warren Lectureship (Vanderbilt University, Nashville)	2000
Herbert Newby McCoy Award (UCLA)	2001
Barré Lectureship (University of Montréal)	2001
Robert B Murray Lectureship (University of Missouri-St Louis)	2002
Closs Lectureship (University of Chicago)	2002
Dains Lectureship (University of Kansas)	2002
Nieuwland Lectureship (University of Notre Dame)	2002
Liversidge Lectureship (University of Sydney)	2003
Spinks Lectureship (University of Saskatoon)	2003
Lansdowne Lectureship (University of Victoria)	2003
Wyeth Research Lectureship (University of Pennsylvania)	2004
Nagoya Gold Medal in Organic Chemistry (University of Nagoya)	2004
Carnegie Centenary Professorship at the Universities of Scotland	2005
American Chemical Society PMSE Division Arthur K Doolittle Award	2005
Honorary Professorship (East China University of Science and Technology)	2005
Honorary Doctor of Science Degree (University of Birmingham)	2005
Paul Gassman Lectureship (University of Minnesota)	2005
First Novartis Lectureship (ETH Zürich)	2005
University of Edinburgh Alumnus of the Year 2005 Award	2005
Fellowship of the American Association for the Advancement of Science	2005
Karcher Lectureship (University of Oklahoma)	2006
Mack Memorial Award (Ohio State University)	2006
Foreign Membership of the Royal Netherlands Academy of Arts and Sciences	2006
Criegee Lectureship (University of Karlsruhe)	2006
Fuson Award (University of Nevada)	2006
Honorary Doctor of Science Degree (University of Twente)	2006
Appointed Knight Bachelor by HM Queen Elizabeth II	2007
King Faisal International Prize in Science	2007
Mathers Lectureship (University of Indiana)	2007
HC Brown Lectureship (Purdue University)	2007
Tetrahedron Prize for Creativity in Organic Chemistry	2007
Feynman Prize in Nanotechnology (Experimental)	2007
Izatt Christensen Lectureship (Brigham Young University)	2007
Arthur Fry Lectureship (University of Arkansas)	2007
Albert Einstein World Award of Science	2007
Gooch-Stephens Lectureship (Baylor University)	2008
Morgan Science Lectureship (Appalachian State University)	2008
Peter B Sherry Memorial Lectureship (Georgia Institute of Technology)	2008
William D Smart Lectureship in Chemistry (University of West Florida)	2008
Arthur C Cope Award (American Chemical Society)	2008
Honorary Fellowship of the Royal Society of Edinburgh	2008
Honorary Doctor of Science Degree (University of Sheffield)	2008
Davy Medal of the Royal Society of London	2008
Armes Lectureship (University of Manitoba/MB/Canada)	2009
Donald Davis Memorial Lectureship (University of New Orleans)	2009
Honorary Doctor of Science Degree (Trinity College Dublin)	2009

Chatt Lectureship (John Innes Centre/Norwich/UK)	2009
ISNSCE Award at FNANO 2010	2010
Honorary Doctor of Science Degree (St Andrews)	2010
Royal Medal of the Royal Society of Edinburgh	2010
Undergraduate Chemistry Council Teacher of the Year (Northwestern University)	2011
Honorary Fellowship of the Royal Society of Chemistry	2011
Fellowship of the American Academy of Arts and Sciences	2012
Honorary Professorship (Jilin University)	2012
Distinguished Citizen Award from the Illinois St Andrews Society	2012
Henry Dreyfus Chemistry Lectureship (Dartmouth College)	2013
Cava Lectureship (University of Alabama)	2013
Birch Lectureship (Australian National University)	2013
IChemE North America Chemical Engineering Project Award for Innovation from the Institute of Chemical Engineers	2013
William G Dauben Lectureship (UC Berkeley)	2014
Vista Lectureship (University of Texas, Austin)	2014
Membership of the National Academy of Sciences	2014
Centenary Prize from the Royal Society of Chemistry	2014
Alan G MacDiarmid Medal Lecture (University of Pennsylvania)	2014
Honorary Professorship (Nottingham University)	2015
Douglas G Hill Memorial Lecture (Duke University)	2016
The Durham Lectures (University of Durham)	2016
Haworth Memorial Lecture (Royal Society of Chemistry)	2016
Ullyot Public Lecture (Chemical Heritage Foundation/Philadelphia)	2016
Nobel Prize in Chemistry (Royal Swedish Academy of Sciences)	2016
Zhu Kezhen Distinguished Lectureship (Zhejiang University)	2017
Krebs Lecture (University of Sheffield)	2017
SAFEA International Teacher of the Year (Peking University)	2017
Nanyang Chemistry Distinguished Lectureship	2017
Great Immigrants for 2017 (Carnegie Corporation of New York)	2017
Honorary Doctor of Science Degree (University of Nottingham, UK)	2017
Scottish Innovation Award (Baird of Bute Society)	2017
The Friends of Larry Taylor Lectureship (Virginia Tech)	2017
Second Netherlands Award for Supramolecular Chemistry	2017
Galileo Lecture (University of Padua, Italy)	2017
Centennial Lectureship (University of Texas, El Paso)	2018
Apeloig Lecture (Technion, Haifa, Israel)	2018
Inaugural Walter A Szarek Lectureship (Queen's University / Canada)	2018
President's Lecture (University of Montana, Missoula)	2018
Foreign Membership of the Chinese Academy of Sciences	2018
Doctor Honoris Causa (Universidad Autonoma Madrid, Spain)	2018
Sir Jesse Boot Foundation Lecture (University of Nottingham, UK)	2018
Honorary Membership of the European Academy of Sciences and Arts	2018
Fellowship of the Royal Society of New South Wales	2018
Honorary Professorship of Yang Shixian Forum (Nankai University, China)	2018
Howard Nobel Lecture (University of New South Wales, Australia)	2018
Makhlouf Haddadin Lectureship (American University of Beirut, Lebanon)	2018
Honorary Doctor Degree (Yerevan State Medical University)	2018
Honorary Doctor of Science Degree (University of Southern Denmark)	2018
Samuel Weissman Lecture (Washington University, St Louis)	2018
Sir James Irvine Memorial Lecture (St Andrews University, UK)	2018
Mitchum E Warren Jr Lecture (Vanderbilt University, Nashville)	2018
Mautner Memorial Lectures (University of California, Los Angeles)	2018
Science and Technology Cooperative Award (Chinese Government)	2019
Honorary Doctor Degree (University of Brasilia, Brazil)	2019
Honorary Doctor Degree (Hong Kong Baptist University)	2019

Walter H Coulter Lecture (PITTCON, Pittsburgh)	2019
Rathore Memorial Lecture (Marquette University, Milwaukee)	2019
Albert A Michelson Lecture (US Naval Academy, Annapolis)	2019
Frank C Mathers Lecture (Indiana University, Bloomington)	2019
Kentucky Derby Lecture (University of Louisville)	2019
Mendel Lecture (Augustinian Abbey, Brno, Czech Republic)	2019
Giulio Natta Lecture (Politecnico di Milano, Italy)	2019
Thomas A Edison Memorial Lecture (Naval Research Laboratory, DC)	2019
Inducted to National Academy of Inventors	2019
ICI Distinguished Lecture Series (University of Chicago)	2019
Robert Damrauer Lectureship (University of Colorado Denver)	2019
Watkins Lectureship (University of Kansas)	2019
Dodge Lectureship (Yale University)	2019
Science and Technology Award (Chinese Government)	2019
Fellowship of the American Chemical Society	2019
Chemistry Europe Fellowship	2020
Distinguished Fellowship of the Royal Society of New South Wales	2020
Honorary Lifetime Fellow of the Indian Chemical Society	2020

EARLY EDUCATION:

Melville College/Edinburgh	1950-60
University of Edinburgh	1960-66
(a) Undergraduate Student (1960-64) reading Chemistry /Physics/ Mathematics/Biochemistry	
(b) Postgraduate Research Student (1964-66) in the late Professor Sir Edmund Hirst's Carbohydrate School	

POSTDOCTORAL RESEARCH FELLOWSHIPS:

National Research Council of Canada Postdoctoral Fellowship with the late Professor J K N Jones in the Department of Chemistry/Queen's University/Kingston/Ontario	1967-69
ICI Research Fellowship with the late Professor W D Ollis in the Department of Chemistry/University of Sheffield	1970

RESEARCH AND TEACHING APPOINTMENTS:

Lecturer in Chemistry/University of Sheffield	1970-82
Visiting Lecturer /Department of Biochemistry/University of Parana/ Curitiba/Parana/Brazil	1972
Science Research Council Senior Visiting Fellowship with Professor D J Cram in the Department of Chemistry/University of California at Los Angeles	1978
Secondment for three years to join the Catalysis Group headed by Dr W Hewertson at the ICI Corporate Laboratory/Runcorn under the auspices of the Science Research Council Cooperative Research Scheme	1978-81
Visiting Professorship/Texas A & M University	1980
Reader in Chemistry/University of Sheffield	1982-91
Visiting Professorship/University of Messina (Sicily)	1986-88
Visiting Professorship/Ecole Nationale Supérieure de Chemie de Mulhouse Convention Intercantonale Romande d'Enseignement du 3e Cycle en Chemie (Bern/Fribourg/Lausanne/Switzerland)	1987
Professor of Organic Chemistry/University of Birmingham	1988
	1990-97

Honorary Professor of Chemistry/University of Birmingham	1997-02
Head of the School of Chemistry/University of Birmingham	1993-97
Saul Winstein Professor of Organic Chemistry/UCLA	1997-03
Director of the California NanoSystems Institute	2002-07
Fred Kavli Professor of NanoSystems Sciences/UCLA	2003-07
Board of Trustees Professor of Chemistry/Northwestern University	2008-
Director of the Center for the Chemistry of Integrated Systems (CCIS) / Northwestern University	2010-17
Chief Technology Officer of PanaceaNano	2014-19
Chief Technical Officer of Cycladex	2014-
Thousand Talent Scholar at Tianjin University	2014-
Visiting Professor of Chemistry / University of New South Wales	2018-

ADMINISTRATIVE EXPERIENCE:

(1) Sheffield University

Organic Chemistry Representative on Departmental Academic Development Committee	1972-73
Organic Chemistry Representative on Departmental Safety Committee	1973-75
Organic Chemistry Representative on Staff-Student Committee	1974-77
Organic Chemistry Representative on NMR Committee	1978-90
Organiser of the Organic Discussion Group Meetings at ICI Corporate Lab	1978-81
Departmental Representative on the Science Faculty Board	1981-84
Organic Chemistry Representative on Departmental Standing Group on Computing Facilities	1982-86
Departmental Research Committee	1988

(2) Birmingham University

Chairman of Science Faculty Industrial Liaison Panel	1991-94
Member of Science Faculty Research Committee	1991-97
Chairman of Chemistry Futures Group	1992-93
Postgraduate Prospectus Production Vice-Chancellor's Special Advisor	1992
Future Vice-Chancellor Selection Panel	1995

(3) University of California, Los Angeles

Member of the Departmental Awards Committee	1997-99
Member of the Departmental Library Committee	1998-99
Member of the California NanoSystems Institute	2000-
Acting Co-Director of the California NanoSystems Institute	2002-03
Member of the Postdoctoral Advisory Committee	2002
Director of the California NanoSystems Institute	2003-07
Member of the Research Advisory Council for UCLA	2004-06
Member of the Materials Creation Training Program	2004-07
Member of the Departmental Awards Committee	2007

(4) Northwestern University

Member of the Integrated Molecular Structure Education and Research Center Planning Committee	2008-10
Member of Department of Chemistry Awards Committee	2008-12
Member of Institute for Bionanotechnology in Medicine	2008-12
Member of Robert H Lurie Comprehensive Cancer Center	2008-12
Member of Materials Research Science and Engineering Center	2008-11
Director of the Center for the Chemistry of Integrated Systems	2010-17
Member of Senior Hire Search Committee	2010-12
Chair of the Faculty Honors Committee	2012-16

Member of Chair's Advisory Committee 2014-16
Member of the Faculty Honors Committee 2018-

ADDITIONAL ACADEMIC ACTIVITIES:

President of Sheffield University Student Chemical Society 1972-73
Vice-President of Sheffield University Student Chemical Society 1976-77
1986-87
Vice-President of Birmingham University Student Chemical Society 1990-91 1991-92

PROFESSIONAL SOCIETIES:

The Royal Society of Chemistry (The Chemical Society) 1965-
The American Chemical Society 1971-
The Royal Society of London 1994-
The Royal Institution of Great Britain 1994-97
Germany Academy of Natural Sciences, Leopoldina 1999
The American Association for the Advancement of Science 2005
The Royal Netherlands Academy of Arts and Sciences 2006
Imperial Society of Knights Bachelor 2007
The Royal Society of Edinburgh 2008
The American Academy of Arts and Sciences 2012
The National Academy of Sciences 2014
The EU Academy of Sciences 2017
The Chinese Academy of Sciences 2018
The Royal Society of New South Wales 2018

EXTERNAL EXAMINING:

Several Ph D Theses at a number of Universities including Cambridge, Cork (Ireland), Durham, Imperial College London, Kent, King's College London, Liverpool, Madrid (Spain), Monash (Australia), New England (Australia), Newcastle, Oxford, Paris (France), Queen's University Belfast, Salford, Strathclyde and Sydney (Australia).

SCIENTIFIC REFEREEING OF PUBLICATIONS:

Communications, papers and reviews for Royal Society of Chemistry Publications (*Chem. Commun.*, *Chem. Soc. Rev.*, *J. Mater. Chem.*), American Chemical Society Publications (*Chem. Mater.*, *J. Amer. Chem. Soc.*, *J. Org. Chem.*, *Inorg. Chem.*, *Langmuir*, *Macromolecules*, *Nano Lett.*, *Org. Lett.*, *Organometallics*), *Adv. Mater.*, *Angew. Chem.*, *Canad. J. Chem.*, *Carbohydr. Res.*, *Chem. Eur. J.*, *Eur. J. Org. Chem.*, *Nature*, *Nature Chem.*, *Nature Commun.*, *Nature Nanotech.*, *Proc. Natl. Acad. Sci. USA*, *Science*, *Synlett*, *Synthesis*, *Tetrahedron*, *Tetrahedron Lett.*

PEER REVIEWING OF RESEARCH GRANT APPLICATIONS:

BBSRC • Camille Dreyfus Teacher-Scholar Award • EPSRC • National Board for Science and Technology in Ireland • National Institutes of Health • National Science Foundation • Petroleum Research Fund • National Science and Engineering Research Council in Canada • NATO • EEC (Stimulation Programme) • Australian Research Council • Dutch National Science Foundation • Israeli Research Council • Norwegian Research Council • Research Corporation • Sloan Foundation • Swiss National Science Foundation • Hong Kong Research Council • ACS Petroleum Research Fund • Netherlands Organization for Scientific Research

SCIENTIFIC COMMITTEES AND OTHER PROFESSIONAL ACTIVITIES:

Vice-Chairman RSC Carbohydrate Group 1987/8
Editor of RSC Monographs on Supramolecular Chemistry 1988-2008
Member of Editorial Board of Bio-Organic Chemistry Reviews 1987

Chairman of RSC Carbohydrate Group	1988/90
Guest Editor of Thematic Issue of Carbohydrate Research on Cyclodextrins	1988/89
Vice-Chairman of RSC Carbohydrate Group	1990/1
Member of SERC Molecular Electronics Futures Panel	1989-90
Member of Editorial Board of the <i>Journal of Inclusion Phenomena</i>	1989-95
Member of the Advisory Board of RSC <i>Journal of Materials Chemistry</i>	1990-95
Member of the Editorial Board of the RSC <i>Chemical Society Reviews</i>	1991-95
Member of the SERC Molecular Recognition Initiative Review Panel	1991-92
Member of the SERC Molecular Electronics Committee	1991-93
UK Representative on the NATO Special Programme on Supramolecular Chemistry	1991-94
UK Representative and Assistant Coordinator of the European Science and Technology Group	1991-93
Member of the Editorial Board of <i>Synthesis</i>	1991-97
Member of the SERC Carbohydrate Science Panel	1992
Member of SERC Chemistry Committee	1992-94
Member of SERC Biomolecular Sciences Subcommittee	1992-94
Member of the Editorial Board of Supramolecular Science	1993-98
Chairman of the NATO Special Programme on Supramolecular Chemistry	1994-97
Member of the EPSRC/BBSRC Biomolecular Sciences Subcommittee	1994-95
Member of the EPSRC Chemistry College	1994-97
Member of the International Advisory Board of <i>Angewandte Chemie</i>	1995-2013
Member of the Editorial Board of <i>Chemistry: A European Journal</i>	1995-
Member of the Scientific Advisory Board of the Center for Nanoscale Science and Technology at Rice University	1995-97
President of the Chemical Section of the British Association	1996
Member of the International Advisory Board of <i>Collection of Czechoslovak Chemical Communications</i>	1997-2010
Member of the Editorial Advisory Board of <i>Organic Letters</i>	1999-
Member of the Editorial Advisory Board of the <i>Journal of Organic Chemistry</i>	1999-2010
Member of the NSF Inorganic CAREER Panel	1999
Member of the NIH Medicinal Chemistry Study Section	2000
Member of the Editorial Advisory Board of <i>Crystal Growth and Design</i>	2000-08
Member of International Board of IUPAC Meeting in Ottawa	2002-03
Member of International Advisory Committee for Conference on Materials and Advanced Technologies in Singapore	2003
Member of the Scientific Committee of the Nanoworld Institute of the University of Genoa	2003
Associate Editor of <i>Organic Letters</i>	2003-05
Member of the ACS Executive Director's 2020 Committee	2004-14
Member of the Wolf Prize in Chemistry Committee	2004
Member of the Scientific Advisory Board of the Berkeley Lab Molecular Foundry	2007-12
Chairman of the NSF Chemistry Committee Workshop on Emergent Phenomena	2007
Editor-in-Chief of <i>Applied Nanoscience</i>	2010-
Member of International Advisory Board of <i>Chemistry World</i>	2013-
Member of International Advisory Board of <i>Macromolecular Rapid Communications</i>	2013-
Member of International Advisory Board of <i>ChemPlusChem</i>	2013-
Member of Editorial Advisory Board of <i>ChemSystemsChem</i>	2018-

ORGANIZATION OF NATIONAL AND INTERNATIONAL CONFERENCES

1. Royal Society of Chemistry Carbohydrate Group Spring Meeting
Sheffield: 13-16 April 1986
Contemporary Carbohydrate Chemistry (Local Organizer)
2. Fourth International Symposium on Inclusion Phenomena

- Lancaster: 19-25 July 1986
Inclusion Phenomena (Member of Local Organizing Committee)
3. Sheffield Industrial Forum, University of Sheffield
Octagon Centre/Firth Hall: 29-31 October 1986
New Concepts and Innovations in Molecular Science (Convener)
 4. One-day Symposium of UK Macrocyclic Group
Octagon Centre/Sheffield: 1 December 1986
Macrocyclic Chemistry (Joint Organizer)
 5. Half-day Meeting in Sheffield: 14 December 1987
Molecular Recognition with Macrocycles (Joint Organizer)
 6. Royal Society of Chemistry Carbohydrate Group Autumn Meeting
Sheffield: 11-14 September 1988
Glycolipids in Molecular Recognition and Membrane Organisation (Local Organizer)
 7. SERC Workshop. Cambridge: June 1989
Glycoconjugates (Joint Organizer)
 8. Sixteenth International Symposium on Macrocyclic Chemistry
Sheffield: 1-6 September 1991
Macrocyclic Chemistry (Co-Chair)
 9. First Birmingham Supramolecular Chemistry Symposium
Birmingham: 13 December 1991
Supramolecular Chemistry (Organizer)
 10. Royal Society of Chemistry Fine Chemicals and Medicinal Group Symposium for Schoolteachers
Birmingham: 23 September 1992
Invention and Innovation in Chemistry (Chairman of Organizing Committee)
 11. Second Birmingham Supramolecular Chemistry Symposium
Birmingham: 11 December 1992
Supramolecular Chemistry (Organizer)
 12. Third Birmingham Supramolecular Chemistry Symposium
Birmingham: 20 December 1993
Supramolecular Chemistry (Organizer)
 13. Royal Society of Chemistry Perkin Division Symposium
Birmingham: 24-29 July 1994
Recognition Processes (Co-Chair)
 14. Royal Society of Chemistry/Joint Dalton/Perkin Divisions Meeting
Birmingham: 14 March 1996
Contemporary Aspects of Photochemistry (Organizer)
 15. British Association Meeting - Chemistry Section
Birmingham: 9-13 September 1997 (President)
 16. CNSI Nanotriangle Meeting (Organizer)
Marriott/Marina del Rey: 9 July 2005
 17. CNSI NanoSystems Poster Day 2002 (Organizer)
UCLA Faculty Center: 17 September 2002
 18. UCLA NanoSystems Symposium & First Cram Debate (Organizer)
UCLA Faculty Center: 20 September 2005
 19. International NanoSystems Symposium (Organizer)
UCLA Sunset Village De Neve Plaza: 13 December 2003
 20. Norma Stoddart Memorial Symposium (Chair)
UCLA Department of Chemistry and Biochemistry: 22-26 June 2004
 21. Fifth International Dendrimer Symposium (IDS-5) (Co-Organizer)
Mount Pleasant MI: 17-21 May 2005
 22. XVII International Conference on Organic Solid State (Co-Organizer)
UCLA Sunset Village De Neve Plaza: 24-29 July 2005
 23. CCIS Memorial Day Weekend Symposium : Chemistry for the Next Generation by the Next Generation
Northwestern University: 28-20 May 2010
 24. CCIS Victoria Day Weekend Symposium : 70th Birthday Event
Northwestern University : 26 May 2012
 25. Scottish Symposium

Northwestern University : 23 January 2017
 26. Foresight Annual Workshop on Molecular Machines
 Hilton Orrington Hotel / Evanston : 20–21 September 2019

RESEARCH INTERESTS SUMMARISED WITH KEYWORDS:

NANOSCIENCE AND SUPRAMOLECULAR CHEMISTRY: Batteries • Borromean link compounds • catenanes and rotaxanes • chemically modified cyclodextrins • chirality • concept transfer from the life sciences into materials science • dendrimers • dynamic covalent chemistry • mechanically interlocked compounds • molecular electronics • molecular machines • molecular recognition processes • molecular switches with bistability and metastability • nature of the mechanical bond • soft lithography • self-assembly processes • supramolecular polymers • stereochemistry • template-directed synthesis • topology • metal-organic frameworks

RESEARCH COLLABORATORS:

The following research personnel have been/are independently supervised by me:

	Name	(Dates)	Financial Support	Degree
1.	I J Burden	(1971-73)	Self supporting	M Sc
2.	A C Coxon	(1972-75)	SRC Studentship	Ph D
3.	W D Curtis	(1973-76)	CASE-SRC Studentship (ICI)	Ph D
4.	D A Laidler	(1974-77)	SRC Studentship	Ph D
5.	H F Beckford	(1975-78)	Allen & Hanbury's Studentship	Ph D
6.	J B Wolstenholme	(1976-79)	ICI-JRS Technician's Post	M Sc
7.	R B Pettman	(1976-79)	SRC Studentship	Ph D
8.	J A Haslegrave	(1976-79)	CASE-SRC Studentship (ICI)	Ph D
9.	J A Metcalfe	(1976-79)	CASE-SRC Studentship (ICI)	Ph D
10.	D A Laidler	1977-78)	ICI-JRS Postdoctoral Assistantship	-
11.	G D Beresford	(1978-79)	SRC Postdoctoral Fellowship	-
12.	S E Fuller	(1978-79)	ICI-JRS Postdoctoral Assistantship	-
13.	T H Crawshaw	(1978-81)	CASE-SRC Studentship (ICI)	Ph D
14.	D Holland	(1978-81)	CASE-SRC Studentship (ICI)	Ph D
15.	S E Fuller	(1979-81)	SRC Postdoctoral Assistantship	-
16.	J B Wolstenholme	(1980-82)	SRC Postgraduate Assistantship	-
17.	J M Maud	(1981-83)	ICI-JRS Postdoctoral Fellowship	-
18.	P CY K Ning	(1981-84)	SERC Studentship	Ph D
19.	S M Doughty	(1981-84)	CASE-SERC Studentship (ICI)	Ph D
20.	D R Alston	(1981-82)	Johnson Matthey Studentship	M Sc
21.	H Shahriari-Zavareh	(1982-83)	SERC Postdoctoral Assistantship	-
22.	D R Alston	(1982-85)	CASE-SERC Studentship (JM)	Ph D
23.	D A Pears	(1982-85)	CASE-SERC Studentship (ICI)	Ph D
24.	M K Williams	(1982-85)	Instant SERC Studentship	Ph D
25.	F H Kohnke	(1982-85)	Italian Government Studentship	Ph D
26.	J B Wolstenholme	(1982-83)	ARC Postgraduate Assistantship	-
27.	J B Wolstenholme	(1983-84)	Sandoz	-
28.	H Shahriari-Zavareh	(1983-85)	AFRC Postdoctoral Fellowship	-
29.	D A Leigh	(1984-87)	Ministry of Defence (CDE)	-
30.	R Zarzycki	(1984-87)	CASE-SERC Studentship (JM)	Ph D
31.	F H Kohnke	(1985-87)	SERC Postdoctoral Fellowship	-
32.	D J Berrisford	(1985-89)	CASE-SERC Studentship (ICI)	Ph D
33.	S S Chana	(1985-88)	CASE-SERC Studentship (ICI)	Ph D
34.	C G Gemmell	(1985-88)	CASE-SERC Studentship (ICI)	Ph D
35.	L R Cullen	(1985-89)	ICI-JRS Studentship	Ph D
36.	D C Mulligan	(1985-86)	Johnson Matthey Studentship	M Phil
37.	J A Ramsden	(1985-86)	ICI-JRS Studentship	M Phil
38.	N Spencer	(1985-91)	AFRC Postdoctoral Fellowship	-
39.	P Bonaccorsi	(1986-87)	Fondazione Bonino-Pulejo	M Phil
40.	D C Mulligan	(1986-87)	CASE-SERC Studentship (JM)	-
41.	M Garner	(1986-87)	ICI-Sponsored Studentship	-
42.	J Marsh	(1986-87)	Raychem Sponsored Studentship	-

43.	M Reddington	(1986-89)	CASE-SERC Studentship (Shell)	Ph D
44.	M Wali	(1986-91)	ICI Sponsored Studentship	Ph D
45.	K Martin	(1986-88)	SERC Postdoctoral Assistantship	-
46.	P L Anelli	(1986-87)	CNR Postdoctoral Fellowship	-
47.	R Zarzycki	(1987-88)	SERC Postdoctoral Fellowship	-
48.	J-Y Ortholand	(1987)	Visiting Research Studentship	-
49.	P Ellwood	(1987-90)	CASE-SERC Studentship (JM)	Ph D
50.	J P Mathias	(1987-90)	Ministry of Defence (CDE)	Ph D
51.	J F Costello	(1987-90)	CASE-SERC Studentship (BP)	Ph D
52.	C L Brown	(1987-91)	ICI-Sponsored Studentship	Ph D
53.	L Mendez	(1988-91)	Scimat Sponsored Studentship	Ph D
54.	D Giuffrida	(1988-94)	Fondazione Bonino-Pulejo	Ph D
55.	M A Thompson	(1988-91)	Earmarked SERC Studentship	Ph D
56.	S Mahmood	(1988-91)	CASE-SERC Studentship (ICI)	Ph D
57.	D Smith	(1988-91)	CASE-SERC Studentship (ICI)	Ph D
58.	C Vicent	(1988)	Royal Society Exchange Studentship	-
59.	M Grognoz	(1989-90)	SERC Postdoctoral Assistantship	-
60.	L Santa	(1989-90)	SERC Postdoctoral Assistantship	-
61.	P L Anelli	(1989)	CNR Postdoctoral Fellowship	-
62.	F H Kohnke	(1989)	Postdoctoral Fellowship (Messina)	-
63.	M V R Venner	(1989-93)	ICI Sponsored Studentship	Ph D
64.	G Hough	(1989-92)	Seal Sands Sponsored Studentship	Ph D
65.	D Philp	(1989-93)	SERC Earmarked Studentship	Ph D
		(2018-20)	Research Professor	
		(2020-)	Visiting Scholar	
66.	X Sun	(1989-92)	SERC Postdoctoral Assistantship	-
67.	I Canalda	(1989-90)	Spanish Postdoctoral Assistantship	-
68.	U Girreser	(1989-92)	DFG Postdoctoral Assistantship	-
69.	E Hartwell	(1990-94)	Marks Sponsored Studentship	Ph D
70.	P Campbell	(1990-93)	ICI Sponsored Studentship	Ph D
71.	D Armspach	(1990-94)	Kodak Sponsored Studentship	Ph D
72.	M Blower	(1990-93)	CASE-SERC Studentship (ICI)	Ph D
73.	S Guillerez	(1990-91)	SERC Postdoctoral Assistantship	-
74.	J P Mathias	(1990-91)	SERC Postdoctoral Assistantship	-
75.	C L Brown	(1990-91)	SERC Postdoctoral Assistantship	-
76.	R Bissell	(1990-92)	SERC Postdoctoral Assistantship	-
77.	A Reder	(1991-92)	SERC Postdoctoral Assistantship	-
78.	M R Johnston	(1991)	Visiting Research Student	-
79.	S Iqbal	(1991-92)	Birmingham Supported Studentship	M Sc
80.	D J F Marquis	(1991-92)	ERASMUS Exchange Student	M Sc
81.	R Koeniger	(1991-94)	Pfizer Sponsored Studentship	Ph D
82.	J Preece	(1991-94)	SERC Quota Studentship	Ph D
83.	H G Ricketts	(1991-94)	Glaxo Studentship	-
84.	J Wheeler	(1991-93)	SERC Postdoctoral Assistantship	-
85.	O Kocian	(1991-97)	SERC/EPSRC Postdoctoral Assistantship	-
86.	D B Amabilino	(1991-94)	SERC/EPSRC Postdoctoral Assistantship	-
87.	M Belohradsky	(1992-93)	SERC Postdoctoral Assistantship	-
88.	G Lynch	(1992)	Summer Studentship	-
89.	S Newton	(1992)	Nuffield Foundation Summer Studentship	-
90.	R Górski	(1992)	Pfizer Summer Studentship	-
91.	L Pérez	(1992-94)	Catalonian Postdoctoral Assistantship	-
92.	N M Rowley	(1992-95)	SERC Postdoctoral Assistantship	-
93.	W Hayes	(1992-95)	SERC-CASE Studentship	PhD
94.	S Iqbal	(1992-95)	BNFL Studentship	PhD
95.	S Nepogodiev	(1992-93)	Royal Society Fellowship	-
96.	D Joachimi	(1992-93)	DFG Postdoctoral Assistantship	-
97.	F Raymo	(1993-96)	Messina University Studentship/EC	PhD
98.	D Pasini	(1993-96)	Glaxo Studentship	PhD
99.	D Armspach	(1993-94)	SERC Postdoctoral Assistantship	-
100.	M Asakawa	(1993-96)	Ciba-Geigy and BBSRC Fellowship	-
101.	C Claessens	(1993-96)	ENS de Lyon Studentship	PhD
102.	R E Gillard	(1993-97)	SERC-CASE Studentship	PhD
103.	P T Glink	(1993-96)	ZENECA-SRF Fellowship	-
104.	M Gómez	(1993-97)	Basque Government Studentship	PhD

	(1997)	UCLA Postdoctoral Fellowship	-
105. E Hattemer	(1993-94)	Exchange Student (Mainz)	-
106. S J Langford	(1993-95)	Ramsay Memorial Fellowship	-
107. P E Mason	(1993-94)	SERC Studentship	-
108. S Rodriguez	(1993-94)	EEC Fellowship	-
109. C Schiavo	(1993-97)	ZENECA-SRF Studentship	PhD
110. A Shipway	(1993-97)	MoD Studentship	PhD
111. M Steenbock	(1993-94)	Exchange Student (Mainz)	-
112. N Svenstrup	(1993-94)	Exchange Student (Odense)	-
113. G Shimizu	(1994-95)	NRC Postdoctoral Assistantship	-
114. J Huff	(1994)	EPSRC Postdoctoral Assistantship	-
115. B Hörner	(1994-96)	DFG/EC Postdoctoral Assistantship	-
116. G Mattersteig	(1994-96)	DFG Postdoctoral Assistantship	-
117. G Gattuso	(1994-97)	Messina University Studentship	PhD
118. C L Brown	(1994-96)	EPSRC Postdoctoral Assistantship	-
119. S E Boyd	(1994-96)	EPSRC Postdoctoral Assistantship	-
120. S Newton	(1994-97)	EPSRC Quota Studentship	PhD
121. C Hamers	(1994-97)	Hills/School Fellowship	PhD
122. G Clavier	(1994)	ERASMUS Exchange Student (Bordeaux)	-
123. T Horn	(1994-95)	EC Postdoctoral Assistantship	-
124. N Jayaraman	(1994-97)	EPSRC Postdoctoral Assistantship	-
125. S Nepogodiev	(1994-97)	BBSRC Postdoctoral Assistantship	-
126. A Chemin	(1994-95)	ERASMUS Exchange Student	-
127. B Colonna	(1995-96)	Pfizer-Sponsored Studentship	M Phil
128. M V Martínez-Díaz	(1995-96)	Spanish Govt Postdoctoral Fellowship	-
129. R Dress	(1995-96)	DFG Postdoctoral Assistantship	-
130. R Wolf	(1995-96)	EPSRC Postdoctoral Assistantship	-
131. M C T Fyfe	(1995-97)	EPSRC-CASE Studentship (ZENECA)	PhD
132. J Bravo	(1995-97)	School Studentship	-
	(1997-98)	UCLA Transfer	PhD
133. E Schofield	(1995)	Summer Studentship	-
134. P Wells	(1995)	Summer Studentship	-
135. S K Sangha	(1995)	Summer Studentship	-
136. S J Cantrill	(1995)	Summer Studentship	-
137. J Y Lee	(1995-96)	British Council Postdoctoral Assistantship	-
138. A Piersanti	(1995-96)	ERASMUS Freemover	M Phil
139. S J Everitt	(1996-97)	BBSRC Postdoctoral Assistantship	-
140. K Shibata	(1996-97)	EPSRC Postdoctoral Assistantship	-
141. O A Matthews	(1996-97)	BNFL Postdoctoral Fellowship	-
142. J A Preece	(1996-97)	Research Fellowship	-
143. G R L Cousins	(1996)	Nuffield Summer Studentship	-
144. S K Sangha	(1996)	Nuffield Summer Studentship	-
145. A Knight	(1996)	Summer Studentship	-
146. A Hoffmann	(1996-98)	EC Postdoctoral Assistantship	-
147. M. Perez-Alvarez	(1996)	Spanish Summer Studentship	-
148. F M Raymo	(1996-97)	EPSRC Postdoctoral Assistantship	-
	(1997-99)	UCLA Transfer	-
149. A Heiss	(1996-97)	BBSRC Postdoctoral Assistantship	-
	(1997-99)	UCLA Transfer	-
150. S Wenger	(1996-99)	EC Postdoctoral Assistantship	-
151. S J Cantrill	(1996-97)	EPSRC Quota Studentship	M Phil
	(1997-2001)	UCLA Transfer	PhD
152. A R Pease	(1996-97)	EPSRC Quota Studentship	-
	(1997-2001)	UCLA Transfer	PhD
153. D A Fulton	(1996-97)	EPSRC Special Studentship	-
	(1997-2001)	UCLA Transfer	PhD
154. J N Lowe	(1996-97)	School Studentship	-
	(1997-2001)	UCLA Transfer	PhD
155. S K Hickingbottom	(1996-97)	School Studentship	M Phil
	(1997-2001)	UCLA Transfer	PhD
156. C Jiangao	(1996-97)	Chinese Government Fellowship	-
157. G Mattersteig	(1997)	School Assistantship	-
	(1997-99)	UCLA Transfer	-
158. B Colonna	(1997)	Pfizer-Sponsored Studentship	-

159.	Z Wang	(1997-99)	UCLA Transfer	PhD
		(1997-99)	EPSRC Postdoctoral Assistantship	-
		(1999-2000)	UCLA Transfer	-
160.	A Comito	(1997)	Summer Studentship	-
161.	G R L Cousins	(1997)	Summer Studentship	-
162.	J Wasserman	(1997-98)	Research Assistant	-
163.	S Kalovidouris	(1997-2002)	UCLA Graduate Student	PhD
164.	J Cao	(1997-2001)	UCLA Graduate Student	PhD
165.	B Cabezon	(1997-98)	Spanish Govt Postdoctoral Fellowship	-
166.	M Belohradsky	(1997)	NATO-Funded Fellowship	-
167.	M C T Fyfe	(1997-99)	UCLA Postdoctoral Fellowship	-
168.	M Nielsen	(1997-98)	Visiting Graduate Student	-
169.	N Jayaraman	(1997-99)	UCLA Postdoctoral Fellowship	-
170.	D Amirsakis	(1997-2002)	Graduate Student	PhD
171.	A Elizarov	(1997-2002)	Graduate Student	PhD
172.	G Vayner	(1997-98)	Graduate Student	-
173.	D Lau	(1998-99)	UCLA Postdoctoral Fellowship	-
174.	S Ro	(1998-2000)	UCLA Postdoctoral Fellowship	-
175.	H Gibson	(1998)	Visiting Professor	-
176.	S Rowan	(1998-1999)	UCLA Postdoctoral Fellowship	-
177.	M Pérez-Alvarez	(1998-99)	UCLA Postdoctoral Fellowship	-
178.	K Araki	(1998-99)	Visiting Professor	-
179.	L Ridvan	(1998-2001)	Postdoctoral Fellowship	-
180.	S-H Chiu	(1998-2000)	Graduate Student	Ph D
181.	T Chang	(1998-2003)	Graduate Student	Ph D
182.	W B Turnbull	(1998-2001)	Wellcome Travelling Research Fellowship	-
183.	P Nash	(1999)	UCLA Summer Studentship	-
184.	S Wenger	(1999-2000)	UCLA Postdoctoral Fellowship	-
185.	Y Kuwatani	(1999-2000)	Japanese Govt Postdoctoral Fellowship	-
186.	S Riela	(1999-2000)	Italian Govt Visiting Studentship	-
187.	J Jeppesen	(1999-2000)	Danish Govt Visiting Studentship	-
188.	G Youn	(1999-2002)	Undergraduate Fellowship	-
189.	J-Y Han	(1999-2004)	Graduate Student	Ph D
190.	A Nelson	(1999-2004)	Graduate Student	Ph D
191.	H Ihm	(1999-2001)	Postdoctoral Fellowship	-
192.	H M Colquhoun	(1999)	Visiting Professor	-
193.	J Perkins	(2000-01)	Postdoctoral Fellowship	-
194.	A Star	(2000-02)	Postdoctoral Fellowship	-
195.	P T Glink	(2000-02)	Postdoctoral Fellowship	-
196.	M Mascal	(2000)	Visiting Professor	-
197.	M Horn	(2000-02)	Postdoctoral Fellowship	-
198.	M Aoyagi	(2000-01)	Postdoctoral Fellowship	-
199.	H-R Tseng	(2000-03)	Postdoctoral Fellowship	-
200.	S Vidal	(2000-02)	Postdoctoral Fellowship	-
201.	F Marchioni	(2000)	Italian Govt Visiting Studentship	-
202.	A I O González	(2000)	Spanish Govt Visiting Studentship	-
203.	J Ihringer	(2000)	German Govt Visiting Studentship	-
204.	K Nielsen	(2000)	Danish Govt Visiting Studentship	-
205.	S Murray	(2000)	Undergraduate Student	-
206.	K Grant	(2000)	Undergraduate Student	-
207.	T Yamamoto	(2000-03)	Japanese Industrial Visiting Fellow	-
208.	S Abeln	(2000-01)	Fulbright Scholarship	-
209.	Y Liu	(2000-05)	Graduate Student	Ph D
210.	S-H Chiu	(2001-02)	Postdoctoral Fellowship	Ph D
211.	S Vignon	(2001-05)	Graduate Student	PhD
212.	A Braunschweig	(2001-06)	Graduate Student	PhD
213.	J Wong	(2001-03)	Graduate Student	MS
214.	N Saettler	(2001-03)	Graduate Student	-
215.	J Badjic	(2001-04)	Postdoctoral Fellowship	-
216.	R Ramirez	(2001-06)	Graduate Student	PhD
217.	P Celestre	(2001-02)	Undergraduate Student	-
218.	J Belitsky	(2002-05)	NIH Postdoctoral Fellowship	-
219.	P Haussmann	(2002-08)	Graduate Student	PhD
220.	C S Joiner	(2002-07)	Graduate Student	PhD

221.	A Flood	(2002-05)	Postdoctoral Fellowship	-
222.	P Bonvallet	(2002-04)	Postdoctoral Fellowship	-
223.	B Northrop	(2002-06)	Graduate Student	PhD
224.	C Meyer (Pentecost)	(2002-07)	Graduate Student	PhD
225.	K Chichak	(2002-05)	Postdoctoral Fellowship	-
226.	I Ciobanu	(2002-03)	Graduate Student	-
227.	T Iijima	(2002-03)	Japanese Industrial Visiting Fellow	-
228.	A Peters	(2003-05)	Postdoctoral Fellowship	-
229.	J Matthews	(2003)	Postdoctoral Fellowship	-
230.	C F Leung	(2003-06)	Hong Kong Govt Postdoctoral Fellowship	-
231.	M Tomcsi	(1999-07)	Graduate Student	PhD
		(2003-)	Transfer from Yves Rubin's Group	PhD
232.	F Arico	(2003-05)	Postdoctoral Fellowship	-
233.	B Laursen	(2003-04)	Danish Govt Postdoctoral Fellowship	-
234.	D Lanari	(2003)	Visiting Scholar	-
		(2005-06)	Postdoctoral Fellowship	-
235.	S Saha	(2000)	Graduate Student	PhD
		(2003-07)	Transfer from Yves Rubin's Group	-
		(2005-07)	Postdoctoral Fellowship	-
236.	M Miyaji	(2003-05)	Japanese Industrial Visiting Fellow	-
237.	R A Ornes	(2003)	Visiting Scholar	-
238.	C M Ronconi	(2003-04)	Brazilian Govt Postdoctoral Fellowship	-
239.	K Griffiths	(2003-08)	Graduate Student	PhD
240.	S Kang	(2000-05)	Graduate Student	PhD
241.	R Moskowitz	(2003-04)	Undergraduate Student	-
242.	T Gottschalk	(2003)	Visiting Graduate Student	-
243.	A Williams	(2001-03)	Postdoctoral Fellowship	-
244.	S Ngaard	(2004)	Visiting Graduate Student	-
245.	N Moonen	(2004-05)	Postdoctoral Fellowship	-
246.	K Patel	(2004-09)	Graduate Student	PhD
247.	V Nhan	(2004-07)	Undergraduate Student	-
248.	N Tang	(2004-07)	Undergraduate Student	-
249.	R Lo	(2004-06)	Undergraduate Student	-
250.	T Ikeda	(2004)	Visiting Scholar	-
		(2005-06)	Postdoctoral Fellowship	-
251.	P Mendes	(2004-06)	Postdoctoral Fellowship	-
252.	J Fernández	(2004-05)	Graduate Student	-
253.	A Hayden	(2004-06)	Graduate Student	PhD
254.	A Williams	(2004-06)	Graduate Student	-
255.	S Yee	(2004-07)	Undergraduate Student	-
256.	C Yates	(2005-08)	Postdoctoral Fellowship	-
257.	S-Y Kim	(2005-06)	Postdoctoral Fellowship	-
258.	M Baroncini	(2005-06)	Visiting Scholar	-
259.	D Benítez	(2005-08)	Postdoctoral Fellowship	-
260.	I Yoon	(2005-08)	Postdoctoral Fellowship	-
261.	I Aprahamian	(2005-08)	Postdoctoral Fellowship	-
262.	K Coti	(2004-09)	Graduate Student	PhD
263.	W Dichtel	(2005-08)	Postdoctoral Fellowship	-
264.	W Cho	(2005-06)	Postdoctoral Fellowship	-
265.	Y Zhao	(2005-10)	Postdoctoral Fellowship	-
266.	O Miljanic	(2005-08)	Postdoctoral Fellowship	-
267.	J Wu	(2005-07)	Postdoctoral Fellowship	-
268.	T Koyama	(2005-07)	Visiting Scholar	-
269.	A Shveyd	(2005-11)	Graduate Student	PhD
270.	M Olson	(2005-10)	Graduate Student	PhD
271.	T Gasa	(2005-10)	Graduate Student	PhD
272.	J Spruell	(2005-09)	Graduate Student	PhD
273.	W Zhang	(2005-10)	Graduate Student	PhD
274.	R Hyde	(2005-07)	Undergraduate Student	-
275.	T Phan	(2005-07)	Undergraduate Student	-
276.	J Olsen	(2006-09)	Graduate Student	PhD
277.	S Mortezaei	(2006-07)	Undergraduate Student	-
278.	T Just	(2006)	Visiting Scholar	-
279.	G Fernandez	(2006)	Visiting Scholar	-

280.	J Diaz	(2006)	Visiting Scholar	-
281.	B Jimenez	(2006)	Visiting Scholar	-
282.	S Saez	(2006)	Visiting Scholar	-
283.	D Cayer	(2006-07)	Undergraduate Student	-
284.	C Bernardi	(2006-07)	Visiting Scholar	-
285.	L Fang	(2006-10)	Graduate Student	PhD
286.	Y Yang	(2006-08)	Postdoctoral Fellowship	-
287.	D Friedman	(2006-10)	Graduate Student	PhD
		(2010-11)	Postdoctoral Fellowship	-
288.	A Sue	(2006-10)	Graduate Student	PhD
		(2013-14)	Postdoctoral Fellowship	-
289.	A Coskun	(2006-11)	Visiting Scholar	-
290.	T Hansen	(2007)	Visiting Scholar	-
291.	S H Hong	(2007)	Postdoctoral Fellowship	-
292.	J Benner	(2007)	Undergraduate Student	-
293.	M Ambrogio	(2007-12)	Graduate Student	PhD
		(2012)	Postdoctoral Fellow	-
294.	A Basuray	(2007-13)	Graduate Student	PhD
		(2013-14)	Postdoctoral Fellowship	-
295.	M Belowich	(2007-11)	Graduate Student	PhD
296.	M Boyle	(2007-12)	Graduate Student	PhD
297.	H Li	(2007-13)	Graduate Student	PhD
298.	H Khatib	(2007-09)	Research Assistant	-
299.	N Khashab	(2007-09)	Postdoctoral Fellowship	-
300.	A Trabolsi	(2007-09)	Postdoctoral Fellowship	-
301.	S Basu	(2008-10)	Postdoctoral Fellowship	-
302.	C Gothard	(2008-09)	Postdoctoral Fellowship	-
303.	L Liu	(2007-08)	Postdoctoral Fellowship	-
304.	W Paxton	(2008-10)	Postdoctoral Fellowship	-
305.	M Schott	(2008-)	Senior Research Associate	-
306.	G Barin	(2008-12)	Graduate Student	PhD
307.	C Bruns	(2008-13)	Graduate Student	PhD
		(2014)	Postdoctoral Fellow	-
308.	N Gothard	(2008-09)	Graduate Student	-
309.	A Fahrenbach	(2008-13)	Graduate Student	PhD
310.	P Nolan	(2008)	Undergraduate Student	-
311.	S Dey	(2008-10)	Postdoctoral Fellowship	-
312.	R Smaldone	(2008-12)	Postdoctoral Fellowship	-
313.	R Forgan	(2008-11)	Postdoctoral Fellowship	-
314.	C Wang	(2008-12)	Postdoctoral Fellowship	-
315.	C Valente	(2008-11)	Postdoctoral Fellowship	-
316.	F Beuerle	(2009-10)	Postdoctoral Fellowship	-
317.	A Whalley	(2009-12)	Postdoctoral Fellowship	-
318.	Z Zhu	(2009-12)	Postdoctoral Fellowship	-
319.	R Stoll	(2009-11)	DAAD Postdoctoral Fellowship	-
320.	J Gaines	(2009-11)	Undergraduate Student	-
321.	J Wang	(2009-10)	Undergraduate Student	-
322.	M Giesener	(2009-12)	Undergraduate Student	-
323.	N Strutt	(2009-14)	Graduate Student	PhD
324.	J Gassensmith	(2009-13)	Postdoctoral Fellow	-
325.	A Bosoy	(2010-19)	User Support Specialist Associate	-
326.	P Erne	(2010)	DAAD (Deutschland) Student Internship	-
327.	D Stassen	(2010)	FUNDP Trainee/Visiting Graduate Student	-
328.	S Grunder	(2010-12)	Postdoctoral Fellowship	-
329.	R Tadros	(2010)	Visiting High School Student	-
330.	H Haas	(2010)	DAAD Visiting Graduate Student	-
331.	A Dubey	(2010)	Visiting Graduate Student	-
332.	D Fujita	(2010)	GCOE/Visiting Graduate Student	-
333.	H Zhang	(2010-11)	Chinese Govt/Visiting Predoctoral Fellow	-
		(2013-14)	Postdoctoral Fellow	-
334.	J Lei	(2010-12)	Chinese Govt/Visiting Predoctoral Fellow	-
335.	K Hartlieb	(2010-17)	Postdoctoral Fellow	-
336.	L Esdaile	(2010-12)	Postdoctoral Fellow	-
337.	A Bozdemir	(2010-11)	Postdoctoral Fellow	-

338.	P McGrier	(2010-13)	NSF FACES/Postdoctoral Fellowship	-
339.	Z-C Liu	(2010-11)	Postdoctoral Fellow	-
340.	J Iehl	(2010-12)	Postdoctoral Fellow	-
341.	H-P Jacquot	(2010-12)	Postdoctoral Fellow	-
342.	A Avestro	(2011-15)	Graduate Student	PhD
343.	J Barnes	(2011-14)	Graduate Student	PhD
344.	A Blackburn	(2011-15)	Graduate Student	PhD
345.	D Cao	(2011-14)	Graduate Student	PhD
		(2014)	Postdoctoral Fellow	-
346.	E Alyamani	(2010)	Visiting Scholar (KACST)	-
		(2014)	Visiting Scholar (KACST)	-
346.	C Ke	(2010-11)	Newton Fellowship Visiting Postdoc	-
		(2011-15)	Postdoctoral Fellow	-
347.	M Frasconi	(2010-14)	Postdoctoral Fellow	-
348.	S Sampath	(2010-12)	Postdoctoral Fellow	-
349.	M Fathalla	(2010-12)	Postdoctoral Fellow	-
350.	A Bagabas	(2011-13)	Visiting Scholar (KACST)	-
351.	A Alabdulrahman	(2011)	Visiting Scholar (KACST)	-
352.	A Alshammari	(2011)	Visiting Scholar (KACST)	-
353.	E Coskun	(2011-12)	User Support Specialist Associate	-
354.	T Kikuchi	(2011-13)	Postdoctoral Fellowship (JSPS)	-
355.	L Lilley	(2011)	Summer REU (NSF NSEC)	-
356.	A Lopez	(2011)	Summer REU (NSF MRSEC)	-
357.	R Guliyev	(2011)	Visiting Predoctoral Scholar	-
358.	O Büyükçakir	(2011-12)	Visiting Predoctoral Scholar	-
359.	M Juricek	(2011-13)	Postdoctoral Fellowship (Rubicon)	-
360.	N Vermeulen	(2011-15)	Postdoctoral Fellow	-
361.	D Yilmaz	(2011-13)	Postdoctoral Fellow	-
362.	C Chuyang	(2011-16)	Graduate Student	PhD
		(2016-18)	Postdoctoral Fellow	-
363.	E Cooper	(2011-12)	Undergraduate Researcher	-
364.	S Schneebeli	(2011-14)	Postdoctoral Fellowship (IIN)	-
365.	N Khdary	(2012)	Visiting Scholar (KACST)	-
366.	K Ghooray	(2012)	Summer REU (IIN)	-
367.	L Witus	(2012-14)	Postdoctoral Fellow (NIH Kirschstein)	-
368.	Y Wu	(2012-14)	Graduate Student (transferred to Wasielewski)	-
369.	X Hou	(2012-16)	Graduate Student	PhD
370.	E Dale	(2012-16)	Graduate Student	PhD
371.	E Wilson	(2012-14)	Graduate Student	MS
372.	Y Wang	(2012-17)	Graduate Student	PhD
373.	Y Sun	(2013)	Visiting Predoctoral Scholar	-
374.	H Li	(2013)	Chinese Govt / Visiting Scholar	-
375.	R Shi	(2013)	Summer Intern	-
376.	A Nakamura	(2013-14)	Asahi Kasei / Visiting Scholar	-
377.	J Sun	(2013-15)	Postdoctoral Fellow	-
378.	M Owczarek	(2013-18)	Postdoctoral Fellow	-
379.	N Hafezi	(2013-15)	Postdoctoral Fellow	-
380.	D Chen	(2013-14)	Postdoctoral Fellow	-
381.	J Han	(2013-)	Chinese Govt / Visiting Scholar	-
382.	I Gibbs-Hall	(2013-16)	Graduate Student	MSc
383.	X Gong	(2013-19)	Graduate Student	PhD
384.	M Hong	(2013-15)	Undergraduate Researcher	-
385.	T Kawaji	(2014-15)	Visiting Scholar	-
386.	X Xiao	(2014-15)	Visiting Scholar	-
387.	Z Erno	(2014-15)	Graduate Student	-
388.	M Algaradah	(2014)	Visiting Scholar	-
389.	M Nassar	(2014-15)	Visiting Scholar	-
390.	A Al-Najada	(2014)	Visiting Scholar	-
391.	I Popovs	(2014-15)	Postdoctoral Fellow	-
392.	J Henkelis	(2014-15)	Postdoctoral Fellow	-
393.	H Arslan	(2014-17)	Postdoctoral Fellow	-
394.	K Hermann	(2014-16)	Postdoctoral Fellow	-
395.	S T Ryan	(2014)	Visiting Predoctoral Scholar	-
396.	K Nalluri	(2014-19)	Postdoctoral Fellow	-

397.	Z Kean	(2015-16)	Postdoctoral Fellow	-
398.	M Lipke	(2015-17)	Postdoctoral Fellow	-
399.	Y Liao	(2015)	Summer Intern	-
400.	H Li	(2015)	Visiting Scholar	-
401.	A Samanta	(2015-17)	Postdoctoral Fellow	-
402.	M Nguyen	(2015-19)	Postdoctoral Fellow	-
403.	A Yesilcimen	(2015)	Visiting Predoctoral Scholar	-
404.	C Fomunung	(2015)	Summer Intern / IIN REU	-
405.	M Otley	(2015-17)	Postdoctoral Fellow	-
406.	D J Kim	(2015-18)	Postdoctoral Fellow	-
407.	C Pezzato	(2015-18)	Postdoctoral Fellow	-
408.	J Han	(2015-18)	Postdoctoral Fellow	-
409.	H Patel	(2015-17)	Postdoctoral Fellow	-
410.	Q Chen	(2015-18)	Postdoctoral Fellow	-
411.	H Li	(2016-17)	Postdoctoral Fellow	-
412.	D Shen	(2016-20)	Postdoctoral Fellow	-
413.	M Rezaeivala	(2016)	Visiting Scholar	-
414.	O Anamimoghadam	(2016-19)	Postdoctoral Fellow	-
415.	F Çetin	(2016)	Summer Intern	-
		(2017-18)	Graduate Student	MS
416.	T Chen	(2016)	Summer Intern	-
417.	L Mosca	(2016-)	Postdoctoral Fellow	-
418.	K Cai	(2016-20)	Postdoctoral Fellow	-
419.	Y Feng	(2016-)	Graduate Student	(PhD)
420.	Y Qiu	(2016-)	Postdoctoral Fellow	-
421.	A Kargar	(2017)	Postdoctoral Fellow	-
422.	Q-H Guo	(2017-)	Postdoctoral Fellow	-
423.	Y Shi	(2017-19)	Postdoctoral Fellow	-
424.	N Lin	(2017-18)	Undergraduate Student	-
425.	M Dumartin	(2017-19)	Postdoctoral Fellow	-
426.	M Meadows	(2017-18)	Postdoctoral Fellow	-
427.	I Roy	(2017-)	Postdoctoral Fellow	-
428.	J Cooper	(2017-20)	Postdoctoral Fellow	-
429.	S Vemuri	(2017-19)	Undergraduate Student	-
430.	L Zhang	(2017-)	Postdoctoral Fellow	-
431.	T Chen	(2017)	Summer Intern	-
432.	F Xie	(2017)	Summer Intern	-
433.	S Liu	(2017)	Summer Intern	-
434.	P Li	(2017-)	Postdoctoral Fellow	-
435.	A Garçi	(2017-)	Postdoctoral Fellow	-
436.	X Cao	(2017)	Visiting Scholar	-
437.	M Çetin	(2017-20)	Postdoctoral Fellow	-
438.	K Xiao	(2017-18)	Undergraduate Intern	-
439.	T Jiao	(2017-18)	Visiting Pre-doctoral Fellow	-
		(2018-19)	Visiting Pre-doctoral Fellow	-
440.	H Wu	(2017-18)	Visiting Pre-doctoral Fellow	-
		(2019-)	Postdoctoral Fellow	-
441.	D Sluysmans	(2017-18)	Postdoctoral Fellow	-
442.	Y Beldjoudi	(2017-20)	Postdoctoral Fellow	-
443.	S Teterycz	(2018-)	Director of Operations	-
444.	H Chen	(2018-)	Postdoctoral Fellow	-
445.	B Cui	(2018-19)	Undergraduate Intern	-
446.	W Li	(2018-19)	Undergraduate Intern	-
447.	W Liu	(2018-)	Postdoctoral Fellow	-
448.	T Kwon	(2018-)	Postdoctoral Fellow	-
449.	T Kosikova	(2018-20)	Postdoctoral Fellow (Philp)	-
450.	Y Jiao	(2018-)	Postdoctoral Fellow	-
451.	K Nam	(2018-21)	Postdoctoral Fellow	-
452.	G Wu	(2018)	Visiting Pre-doctoral Fellow	-
453.	A Enciso Barros	(2018-20)	Postdoctoral Fellow	-
454.	D Limón Magaña	(2019)	Visiting Postdoctoral Fellow	-
455.	D van Brussel	(2019)	Visiting Pre-doctoral Fellow	-
456.	Y Tan	(2019-20)	Postdoctoral Fellow	-
457.	C Fraser	(2019-)	Postdoctoral Fellow (Philp)	-

458.	B DeHaven	(2019-)	Postdoctoral Fellow (Philp)	
459.	J Weber	(2019-)	Postdoctoral Fellow (Philp)	
460.	D Pe	(2019-20)	Undergraduate Student	BS
461.	P Das	(2019-)	Postdoctoral Fellow	
462.	F Alsubi	(2019)	KACST Visitor	-
463.	S Almunif	(2019)	KACST Visitor	-
464.	A Bakr	(2019)	KACST Visitor	-
465.	G Wolfe	(2019)	Visiting Undergraduate Student	-
466.	G Zhuang	(2019)	Undergraduate Intern	-
467.	J Liang	(2019-20)	Undergraduate Intern	-
468.	X Kuang	(2019-20)	Undergraduate Intern	-
469.	T Soares	(2019-20)	Visiting Graduate Student	-
470.	J Xu	(2019-20)	Visiting Undergraduate Student	-
471.	Y Wang	(2019-)	Postdoctoral Fellow	
472.	M Kazem-Rostami	(2019-)	Postdoctoral Fellow	
473.	B Song	(2020-)	Postdoctoral Fellow	
474.	M Ovalle	(2020)	Predocctoral Visiting Scholar	-
475.	M Olson	(2020)	Visiting Scholar	
		(2020-)	Research Associate Professor	
476.	X Li	(2020-)	Postdoctoral Fellow	
477.	Y Wu	(2020-)	Postdoctoral Fellow	
478.	L Feng	(2020-)	Postdoctoral Fellow	
479.	X Zhao	(2020-)	Postdoctoral Fellow	
480.	A. David	(2021-)	Postdoctoral Fellow	
481.	S. Abid	(2021-)	Postdoctoral Fellow	

In addition, I have assisted (Prof W D Ollis at Sheffield University) in the supervision of the following research students:

	Name	(Dates)	Degree
1.	D J Brickwood	(1971-73)	Ph D
2.	S A M T Hussain	(1972-74)	Ph D
3.	J S Stephanatou	(1973-75)	Ph D
4.	A M Hassan	(1974-75)	M Sc
5.	J A Peacock	(1974-75)	M Sc
6.	F E A Elhadi	(1974-77)	Ph D
7.	S J Edge	(1974-77)	M Sc, Ph D
8.	A R Hoorfar	(1975-79)	M Sc, PhD

M Sc & M Phil THESES:

1. **Isomerism in bicyclic acetals** (I J Burden), September 1973, 160 pages.
2. **Thiosalicylides** (J A Peacock), July 1975, 119 pages.
3. **Conformational behaviour of medium-sized ring heterocycles** (A M Hassan), October 1975, 93 pages.
4. **The synthesis and spontaneous resolution of pyrimidoiso-indolones and structurally analogous tricyclic heterocycles** (S J Edge), October 1975, 150 pages.
5. **The synthesis and conformational behaviour of some new trianthranilide derivatives** (A R Hoorfar), February 1977, 109 pages.
6. **The stereochemistry of molecular receptors** (J B Wolstenholme), December 1979, 76 pages.
7. **Molecular receptors for platinum complexes with antitumour activity** (D R Alston), October 1982, 66 pages.
8. **The synthesis of novel macrocyclic tricothecenes** (D A Leigh), November 1985, 95 pages.
9. **New approaches towards enantioselective cyclopropanation of olefins** (J A Ramsden), November 1986, 99 pages.
10. **Chemically-modified cyclodextrins as drug delivery systems** (D C Mulligan), November 1986, 88 pages.
11. **Cholesteric phases induced by chiral substituted cyclohexylidenemethanes** (P M Bonaccorsi), September 1987, 131 pages.
12. **Molecular mecano: Catenanes and rotaxanes made to order** (D J F Marquis), September 1992, 111 pages.
13. **Towards aza-macrocycles via repetitive Diels-Alder reactions** (S Iqbal), March 1993, 121 pages.
14. **Towards synthetic polysaccharide dendrimers: Potential drug delivery systems** (B Colonna), September 1996, 49 pages.

15. **A new family of switchable [2]rotaxanes** (A Piersanti), December 1996, 57 pages.
16. **Self-complementary crown ethers** (S Cantrill), June 1997, 56 pages.
17. **Hammett beyond the molecule** (S K Hickingbottom), June 1997, 75 pages.
18. (J Wong), 2003
19. **Catalytic lithography as a versatile tool to assemble quantum dots or metal-organic frameworks onto patterned surfaces** (P M Erne), 2010, 67 pages.
20. **Formation of hetero[3]rotaxanes by a dynamic component-swapping strategy** (E A Wilson), 2014, 53 pages.
21. **Chemistry for renewable energy production and storage: Molecular engineering, mechanically interlocked molecules and quantum investigation** (F M Çetin), June 2018, xx pages.

Ph D THESES:

1. **Conformational studies on medium and large sized cyclic systems** (D J Brickwood), September 1973, 248 pages.
2. **The synthesis and stereochemistry of 2,4- and 2,3-disubstituted- γ -butyrolactones** (S A M T Hussain), October 1974, 143 pages.
3. **The synthesis and conformational behaviour of some medium-sized ring compounds** (J S Stephanatou), August 1975, 427 pages.
4. **The synthesis of macrocyclic polyethers, macrobicyclic polyethers and their complexes** (A C Coxon), November 1975, 226 pages.
5. **The synthesis and properties of chiral and achiral complexing agents** (W D Curtis), October 1976, 220 pages.
6. **The synthesis and conformational behaviour of some medium and large sized cyclic systems** (F E A Elhadi), July 1977, 280 pages.
7. **The synthesis and conformational behaviour of tri-3-methyltrianthranilides and related heterocycles** (S J Edge), September 1977, 212 pages.
8. **Crown compounds as potential enzyme analogues** (D A Laidler), July 1978, 528 pages.
9. **Stereochemical principles in crown ether chemistry** (R B Pettman), May 1979, 239 pages.
10. **The synthesis and conformational behaviour of tetra-anthranilide derivatives** (A R Hoorfar), July 1979, 218 pages.
11. **Enzyme analogue chemistry and crown compounds** (J A Haslegrave), September 1979, 197 pages.
12. **Cationic complexes of crown ethers** (J C Metcalfe), October 1979, 227 pages.
13. **Some novel paracyclophanes with potential pharmacological activity** (H F Beckford), September 1980, 167 pages.
14. **Some approaches to the stereoselective synthesis of the pentitols** (D Holland), September 1981, 144 pages.
15. **Molecular receptors of the crown ether type** (T H Crawshaw), December 1982, 191 pages.
16. **Stereospecific synthetic approaches to macrobicyclic and macropolycyclic polyethers** (P C Y K Ning), December 1984, 228 pages.
17. **The second sphere coordination of transition metal complexes by crown ethers** (S M Doughty), February 1985, 317 pages.
18. **The design and synthesis of receptor molecules for the bipyridinium herbicides** (F H Kohnke), June 1985, 153 pages.
19. **Molecular receptors for transition metal complexes** (D R Alston), September 1985, 240 pages.
20. **Enantioselective synthesis with chiral crown ethers** (D A Pears), September 1985, 266 pages.
21. **The design and synthesis of hosts for neutral and charged guests** (M K Williams), September 1986, 236 pages.
22. **The synthesis and properties of novel and natural macrocyclic trichothecenes** (D A Leigh), September 1987, 218 pages.
23. **Chemically-modified cyclodextrins as second sphere molecular receptors for transition metal complexes** (R Zarzycki), September 1987, 215 pages.
24. **Novel cyclophanes as receptors for aromatic substrates** (S S Chana), September 1988, 173 pages.
25. **Chiral crown ether catalysis in enantioselective synthesis** (C Gemmell), April 1989, 224 pages.
26. **Non-covalent bonding interactions: Cyclophanes, catenanes and rotaxanes** (M V Reddington), October 1989, 137 pages.
27. **Bis-bridged porphyrins ... achiral and chiral** (L Cullen), November 1989, 322 pages.
28. **Chiral induction in supramolecular systems** (D J Berrisford), November 1989, 163 pages.
29. **The chemical modification of cyclodextrins** (P Ellwood), April 1990, 137 pages.

30. **Studies of the form and function of scorpion-like ligands** (J F Costello), September 1990, 145 pages.
31. **Substrate-directed synthesis: the rapid assembly of macropolycyclic structures *via* repetitive Diels Alder oligomerisation** (J P Mathias), September 1990, 233 pages.
32. **The bipyridinium herbicide paraquat as a host and as a guest in supramolecular chemistry** (C L Brown), February 1991, 262 pages.
33. **Cationic molecular receptors for alcohols** (L Mendez), October 1991, 219 pages.
34. **Molecular lego: Synthesis of novel macropolycycles via repetitive Diels-Alder reactions** (M A Thompson), December 1991, 211 pages.
35. **The design and synthesis of novel macropolycycles** (D R Smith), May 1992, 218 pages.
36. **The construction of novel polymeric architectures** (S Mahmood), October 1992, 212 pages.
37. **Self-assembly in chemical systems** (D Philp), December 1992, 250 pages.
38. **Towards regioselective aromatic substitution: Novel glycoluril-containing cavitands** (G Hough), December 1992, 184 pages.
39. **Studies in deracemisation of racemic ketones** (M R W Venner), December 1992, 197 pages.
40. **Catenated cyclodextrins** (D Armspach), March 1994, 214 pages.
41. **From molecular assemblies to supramolecular arrays** (M Blower), March 1994, 187 pages.
42. **Towards macrocycles with interactive functional groups** (P J Campbell), March 1994, 170 pages.
43. **Synthesis of novel macropolycyclic compounds** (D Guiffrida), January 1994, 120 pages.
44. **Chemically-modified and immobilised cyclodextrins as molecular reaction vessels** (E Y Hartwell), September 1994, 245 pages.
45. **Chemically-modified α -cyclodextrins as building blocks in supramolecular chemistry** (R Königer), November 1994, 107 pages.
46. **From self-assembly to self-organisation** (J A Preece), December 1994, 117 pages.
47. **From supramolecular arrays to molecular assemblies** (W Hayes), November 1995, 130 pages.
48. **Self-assembling systems** (S Iqbal), December 1995, 151 pages.
49. **Self-assembly of catenanes and rotaxanes** (F M Raymo), February 1996, 139 pages.
50. **Chiral molecular assemblies and supramolecular arrays** (D Pasini), November 1996, 127 pages.
51. **Self-assembly and self-organisation of molecular compounds containing complementary π - π interacting units** (C G Claessens), January 1997, 136 pages.
52. **From chemically-modified cyclodextrins to synthetic cyclic oligosaccharides** (G Gattuso), January 1997, 121 pages.
53. **The self-assembly of catenanes** (R E Gillard), March 1997, 117 pages.
54. **Insight into dendrimers and their role as catalysts** (A N Shipway), March 1997, 122 pages.
55. **The self-assembly of novel molecular compounds and their potential device-like properties** (M Gómez-López), May 1997, 130 pages.
56. **The genesis of a novel class of interlocked molecular compounds** (C Schiavo), May 1997, 130 pages.
57. **Studies in self-assembly** (S P Newton), July 1997, 99 pages.
58. **Synthetic chemistry of the noncovalent bond** (M C T Fyfe), September 1997, 115 pages.
59. **Novel polymeric architectures** (C Hamers), September 1997, 116 pages.
60. **Template-directed syntheses of mechanically-interlocked compounds** (J Bravo), October 1998, 144 pages.
61. **Carbohydrate dendrimers** (B Colonna), December 1998, xxx pages.
62. **Efficient synthetic methods toward β -cyclodextrin dimers and new interlocked molecules** (S-H Chiu), 2000, 147 pages.
63. **Fine tuning a molecular recognition site** (S K Hickingbottom), 2001, 194 pages.
64. **Cyclodextrin-based cluster compounds** (D A Fulton), 2001, 186 pages.
65. **Some adventures in secondary ammonium ion binding** (S J Cantrill), 2001, 254 pages.
66. **Computers and supramolecular chemistry** (A R Pease), 2001, 291 pages.
67. **Operating molecular machines in solution and on surfaces** (J Cao), 2001, 146 pages.
68. **From supramolecular bundles toward noncovalent polymers** (J N Lowe), 2001, 143 pages.
69. **Constructing carbohydrate-based multivalent scaffolds for studying carbohydrate-protein interactions** (S A Kalovidouris), 2002, 130 pages.
70. **Synthesis and functions of molecular switches, shuttles and dendrimers containing rotaxane components** (A M Elizarov), 2002, 138 pages.
71. **Template- and structure-directed approaches for the preparation of tetraarylcyclobutanes** (D G Amirsakis), 2002, 170 pages.
72. **Mechanically interlocked molecules beyond catenanes and rotaxanes** (T Chang), 2003, 180 pages.
73. **Design and construction of chemically controlled molecular muscles** (J-Y Han), 2004, 181 pages.

74. **Carbohydrate-containing polymers and macrocycles** (A Nelson), 2004, 197 pages.
75. **Functional molecular machines** (Y Liu), June 2004, 170 pages.
76. **Exploring dynamics and stereochemistry in mechanically-interlocked compounds** (S A Vignon), June 2005, 173 pages.
77. **Powering nanoscale machines with light and electrons** (S Saha), June 2005, 195 pages.
78. **Synthetic and theoretical studies of the formation and dynamic properties of mechanically interlocked molecules** (B H Northrop), September 2006, 207 pages.
79. **Molecular switches for nano-scale devices** (S Kang), 2006, 132 pages.
80. **Structural control of molecular machines** (A Braunschweig), 2006
81. **Template-directed chemistry under thermodynamic control** (C S Joiner Jr), 2007
82. **Molecular Borromean rings and Solomon links** (C D Meyer), 2007, 178 pages.
83. **Synthesis of mechanically interlocked molecules using dynamic covalent chemistry** (K E Griffiths), 2008, 185 pages.
84. **Some adventures in dynamic covalent chemistry** (P Haussmann), 2008, 125 pages.
85. **Dancing with interlocked molecules: The generation of molecular motion for drug delivery Applications and harnessing molecular recognition to create and manipulate exotic structures** (K B Patel), 2009, 183 pages.
86. **I: Hydrodynamic-focusing microreactor. II: Mechanically interlocked molecules for functional materials** (K K Coti), 2009, 172 pages.
87. **Synthesis and studies of redox active rotaxanes** (J-C Olsen), 2009, 166 pages.
88. **The application of copper-catalyzed reactions for the efficient synthesis of donor-acceptor mechanically interlocked molecules as well as for nanoscale surface patterning** (J M Spruell), 2009, 168 pages.
89. **Polymers and metal-organic frameworks containing mechanically interlocked components** (W Zhang), 2010, 141 pages.
90. **The materials chemistry of the mechanical bond and its supramolecular precursors: Their formation under kinetic and thermodynamic control** (M A Olson), 2010, 198 pages.
91. **Fundamental investigations of the self-assembly process of charged host and guest species for molecular electronics and light-harvesting applications** (T B Gasa), 2010, 147 pages.
92. **Expanding the scope on switchable mechanically interlocked molecules** (L Fang), 2010, 242 pages.
93. **Structural control of donor-acceptor mechanically interlocked molecules and supramolecular complexes** (D C Friedman), 2010, 141 pages.
94. **Lock-Arm Supramolecular Ordering: A self-assembly platform for functional organic crystals** (A K Shveyd), 2011, 93 pages.
95. **From molecular meccano to nano-functional materials for molecular electronics applications** (C-H Sue), 2011, 125 pages.
96. **Dynamic imine chemistry in template-directed synthesis of polyrotaxanes under thermodynamic control** (M E Belowich), 2011, 201 pages.
97. **Functionalized cyclophanes incorporated into molecular architectures and mechanized materials** (M M Boyle), 2012, 122 pages.
98. **Mechanized silica nanoparticles: A new frontier in theranostic medicine** (M W Ambrogio), 2012, 97 pages.
99. **The incorporation of radical pairing interactions into mechanically interlocked molecules** (H Li), 2013, 175 pages.
100. **Diazaperopyrenium dications: pioneering a class of perylene derivatives and their use in mechanically interlocked molecules and applications** (A N Basuray), 2013, 141 pages.
101. **The radical and materials chemistry of mechanically interlocked molecules** (G Barin), 2013, 237 pages.
102. **Molecular switches based on donor-acceptor, radical and Coulombic interactions – From solution, to solid-state application** (A C Fahrenbach), 2013, 305 pages.
103. **Rotaxanes and photovoltaic materials based on pi-conjugated donors and acceptors: Toward energy transduction on the nanoscale** (C J Bruns), 2013, 488 pages.
104. **Expanding the role of viologens in supramolecular chemistry through radical-based integrated materials and as hosts for polycyclic aromatic hydrocarbons** (J C Barnes), 2014, 319 pages.
105. **Functionalization of pillararene macrocycles** (N L Strutt), 2014, 202 pages.
106. **Synergizing noncovalent bonding interactions in the self-assembly of organic charge-transfer ferroelectrics and metal-organic frameworks** (D Cao), 2014, 168 pages.
107. **The chemical and topological implications of cyclobis(paraquat-*p*-phenylene) substitution** (A K Blackburn), 2015, 262 pages.

108. **Rational design and structure–property relationships of spatially confined pi-electron-deficient aromatic surfaces** (A-J Avestro), 2015, 320 pages.
109. **Fundamental Development and Practical Applications of Cooperative Capture Synthesis** (X Hou), 2016, 226 pages.
110. **Design and construction of artificial molecular pumps** (C Cheng) 2016, 351 pages.
111. **Expanding the Role of Extended Cyclophanes in Supramolecular Chemistry** (E J Dale) 2016, 300 pages.
112. **Radical-pairing interactions in molecular recognition** (Y Wang) 2017, 267 pages.
113. **Rational design and structure-property relationships of diazaperopyrenium dications and metal-organic frameworks** (X Gong), 2019, 185 pages.

PLENARY & INVITED LECTURES/RESEARCH COLLOQUIA/SEMINARS:

1. **17 October 1973:** University of Sheffield
Research Colloquium : **Crown Ethers and Cryptates**
2. **9 April 1974:** H M Powell Symposium/Oxford
Lecture : **The Conformational Behaviour of Some Twelve-Membered Ring Compounds**
3. **24 September 1974:** Autumn Meeting of the Chemical Society/University of Leicester
Lecture : **Synthesis of Football Ligands**
4. **30 October 1974:** Huddersfield Polytechnic
Research Colloquium : **Crowns and Footballs**
5. **15 July 1975:** Fourth International Symposium on Synthetic Organic Chemistry/University of Cambridge
Lecture : **The Synthesis and Isolation of Conformational Diastereo-isomers of N,N,N-Trisubstituted Trianthranilides**
6. **17 December 1975:** University of Nottingham
Research Colloquium : **Lock and Key Chemistry with Crown Ethers**
7. **15 March 1976:** University of Sheffield
Research Colloquium : **Lock and Key Chemistry with Crown Ethers**
8. **30 March 1976:** Princeton University/New Jersey
Research Seminar : **Lock and Key Chemistry with Crown Ethers**
9. **31 March 1976:** Central Research Laboratory/Dupont/Wilmington
Research Seminar : **Lock and Key Chemistry with Crown Ethers**
10. **2 April 1976:** Columbia University/New York
Research Seminar : **Lock and Key Chemistry with Crown Ethers**
11. **8 April 1976:** Centennial American Chemical Society Meeting/New York
Main Lecture at Symposium on Asymmetry in Carbohydrates: **The Use of Symmetry and Carbohydrates in the Design of Cryptands**
Research Seminar : **Lock and Key Chemistry with Crown Ethers**
12. **9 April 1976:** Syracuse University/New York State
13. **12 April 1976:** McGill University/Montreal
Research Seminar : **Lock and Key Chemistry with Crown Ethers**
14. **13 April 1976:** National Research Council of Canada/Ottawa
Research Seminar : **Lock and Key Chemistry with Crown Ethers**
15. **14 April 1976:** Queen's University/Kingston/Ontario
Research Seminars : **Lock and Key Chemistry with Crown Ethers, Conformational Isomerism among Trianthranilide Derivatives**
16. **20 April 1976:** York University/Toronto
Research Seminar : **Lock and Key Chemistry with Crown Ethers**
17. **11 May 1976:** Symposium on Host-Guest Chemistry/University of Manchester
Supporting Lecture to Prof D J Cram's Centenary Lecture : **Configurationally Chiral Cryptands and their Cryptates**
18. **13 May 1976:** Symposium on Crown Ethers and Selective Molecular Complexation/University College London
Supporting Lecture to Prof D J Cram's Centenary Lecture : **Configurationally**

Chiral Cryptands and their Cryptates

19. **21 September 1976:** Autumn Meeting of the Chemical Society/University of Sheffield
Lecture : The Synthesis and Properties of Some Chiral Diaza-Crowns
20. **12 October 1976:** Imperial College London
Research Colloquium : Conformational Assignments of Trianthranilide Derivatives: Fast Reactions and Slow Conformational Changes
21. **13 October 1976:** University of Edinburgh
Research Colloquium : A Decade of Crowns
22. **12 November 1976:** University of Glasgow
Research Colloquium : Lock and Key Chemistry with Crowns
23. **17 November 1976:** University of Salford/Manchester
Research Colloquium : Lock and Key Chemistry with Crowns
24. **18 November 1976:** University of Oxford
Research Colloquium : Lock and Key Chemistry with Crowns
25. **1 April 1977:** Annual Chemical Congress of The Chemical Society/London
Plenary Lecture at Symposium on Stereochemistry : Lock and Key Chemistry with Crown Ethers
26. **15 April 1977:** Pharmaceuticals Division/ICI
Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
27. **19 April 1977:** Chemical Society Carbohydrate Discussion Group
Spring Meeting/University of East Anglia
Plenary Lecture : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
28. **2 July 1977:** Organics Division/ICI
Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
29. **27 October 1977:** University of Hull
Local Chemical Society Lecture : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
30. **7 December 1977:** UMIST/Manchester
Research Colloquium : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
31. **14 December 1977:** Allen & Hanburys Research/Ware
Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
32. **16 January 1978:** Allied Chemical Corporation/Morristown/New Jersey
Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
33. **17 January 1978:** Dow Chemical USA/Wayland
Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
34. **18 January 1978:** Massachusetts Institute of Technology
Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
35. **20 January 1978:** Dalhousie University/Halifax
Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
36. **24 January 1978:** Central Research Department/Dupont/Wilmington
Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
37. **25 January 1978:** ICI Americas/Wilmington
Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds
38. **27 January 1978:** Union Carbide Corporation/South Charleston

39. *Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds*
30 January 1978: University of Georgia/Athens
40. *Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds*
1 February 1978: Duke University/North Carolina
41. *Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds*
3 February 1978: University of North Carolina/Chapel Hill
42. *Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds*
6 February 1978: Brigham Young University/Utah
43. *Research Seminar : To Enzyme Analogues by Lock and Key Chemistry with Crown Compounds*
2 March 1978: University of California at Los Angeles
44. *Research Seminar : Bringing Crowns from Sheffield or Carrying Coals to Newcastle*
31 March 1978: University of British Columbia/Vancouver
45. *Research Seminar : Carbohydrates, Crown Ethers and Enzyme Analogues*
3 April 1978: University of Calgary/Alberta
46. *Research Seminar : Carbohydrates, Crown Ethers and Enzyme Analogues*
4 April 1978: University of Alberta/Edmonton
47. *Research Seminar : Carbohydrates, Crown Ethers and Enzyme Analogues*
6 April 1978: University of Waterloo/Ontario
48. *Research Seminar : Carbohydrates, Crown Ethers and Enzyme Analogues*
12 April 1978: Ninth International Symposium on Carbohydrate Chemistry/London
49. *Tate and Lyle Lecture : From Carbohydrates to Enzyme Analogues*
13 April 1978: International Conference on Enzymic and Non-Enzymic Catalysis/City University London
50. *Invited Lecture : The Design and Development of Enzyme Analogues*
26 April 1978: University of Newcastle
51. *Research Colloquium : From Carbohydrates to Enzyme Analogues*
29 January 1979: Plant Protection Division/ICI
52. *Research Seminar : Molecular Receptor*
15 March 1979: University College of North Wales/Bangor
North Wales Section of the CS/RIC and the UCNW
Students' Chemical Society
53. *Lecture : Old Crowns and New Chemistry*
6 April 1979: Mond Division/ICI
54. *Research Seminar : Old Crowns and New Chemistry: Stereochemical Principles in the Design and Function of Synthetic Molecular Receptors*
3 May 1979: Bürgenstock Stereochemistry Conference/Switzerland
55. *Plenary Lecture : Old Crowns and New Chemistry: Stereochemical Principles in the Design and Function of Synthetic Molecular Receptors*
19 May 1979: Gregynog Conference/Wales
56. *Lecture : On the Stereochemistry of Noncovalent Interactions in Complexes of Synthetic Receptor Molecules*
22 May 1979: NATO Advanced Study Institute/Parma/Italy
Two Lectures at Summer School on Bioenergetics and Thermodynamics:
Model Systems: **Holes and Handedness: Meeting the Requirements of Primary Binding and Chirality in Enzyme Analogues**
Handles and Hopes: Meeting the Requirements of Secondary Binding and Functionality in Enzyme Analogues

57. **20 June 1979:** University of Liverpool
Research Colloquium : Old Crowns and New Chemistry: Stereochemical Principles in the Design and Function of Synthetic Molecular Receptors
58. **26 June 1979:** Gordon Conference on Carbohydrates
 Tilton/NH
Main Lecture : Ups and Downs on the Way from Carbohydrates to Enzyme Analogues
59. **6 August 1979:** Third Symposium on Macrocyclic Compounds
 Brigham Young University
Plenary Lecture : Synthetic Chiral Receptor Molecules from Natural Products
60. **8 August 1979:** Ciba-Geigy Corporation/Summit/NJ
Research Seminar : Old Crowns and New Chemistry: Stereochemical Principles in the Design and Function of Synthetic Molecular Receptors
61. **10 August 1979:** University of Toronto
Research Seminar : Old Crowns and New Chemistry: Stereochemical Principles in the Design and Function of Synthetic Molecular Receptors
62. **13 August 1979:** Seventh International Congress of Heterocyclic Chemistry
 Tampa/Florida
Plenary Lecture : Old Crowns and New Chemistry: Molecular Receptors and Intermolecular Conformational Analysis
63. **18 October 1979:** University College of Swansea
Research Colloquium : Old Crowns and New Chemistry: Molecular Receptors and Intermolecular Conformational Analysis
64. **23 October 1979:** Corporate Laboratory/ICI
Lecture : Stereoselective Synthesis
65. **7 February 1980:** University of Southampton
Chemical Society Lecture : Old Crown (ethers) and New Chemistry
66. **13 February 1980:** University of Sheffield
Research Colloquium : Towards a Stereochemical Understanding of Intermolecular Interactions and Reactions with Synthetic Receptor Molecules
67. **30 April 1980:** University of Birmingham
Research Colloquium : Towards a Stereochemical Understanding of Intermolecular Interactions and Reactions with Synthetic Receptor Molecules
68. **17 May 1980:** Gregynog Conference/Wales
Lecture : Conformational Studies on Crown Ether Complexes
69. **8-9 May 1980:** Royal Society Conversazione
 (with W D Ollis, D Rogers and D J Williams)
Presentation : Macrocyclic Molecules - Fact and Fantasy
70. **26 June 1980:** Royal Society Conversazione
 (with W D Ollis, D Rogers and D J Williams)
Presentation : Macrocyclic Molecules - Fact and Fantasy
71. **17 July 1980:** Stuart Pharmaceuticals/ICI Americas
Research Seminar : Crown Ether Receptors: Chemistry beyond the Molecule
72. **23 July 1980:** Gordon Conference on Stereochemistry/Plymouth/NH
Lecture : Stereochemistry of Crown Ether Complexes
73. **22 September 1980:** International Symposium on Clathrate Compounds
 and Molecular Inclusion Phenomena/Warsaw/Poland
Plenary Lecture : Crown Ether Inclusion Complexes
74. **26 September 1980:** Symposium on Recent Progress in Anion Activation
 Paris/France
Invited Lecture : Chiral Crown Ethers
75. **1-5 December 1980:** Texas A & M University
Visiting Professorship contributing a Graduate Course on Frontiers in Chemical Research
 Five Lectures entitled :
 (a) **Crown Ethers I. Coronated Transition Metal Complexes**

- (b) **Synthesis and Conformational Behaviour of Trianthranilide Derivatives**
(c) **Crown Ethers II. Towards a Stereochemical Understanding of the Nature of Noncovalent Bonds in Crown Ether Complexes**
(d) **Progress towards the Stereoselective Synthesis of the Pentitols**
(e) **Crown Ethers III. Enzyme Analogues to Order?**
76. **17 December 1980:** Sheffield Stereochemistry Symposium
Invited Lecture : Coronated Transition Metal Complexes
77. **11 February 1981:** University of East Anglia/Norwich
Research Colloquium : Coronated Transition Metal Complexes
78. **12 February 1981:** University of Keele/North Staffordshire Section of the RSC
Invited Lecture : Old Crown (Ethers) and New Chemistry
79. **29 February 1981:** Glaxo Group Research Ltd/Ware
Research Seminar : Coronated Transition Metal Complexes
80. **11 March 1981:** University of Durham
Organic Chemistry Colloquium : Stereochemical Principles in the Function and Synthesis of Crown Ethers
81. **12 March 1981:** University College London/RSC Symposium on Molecular Association and Reactivity
Invited Lecture : Coronated Transition Metal Complexes
82. **19 March 1981:** Sheffield University
Two Schools Lectures : Chemical Holes
83. **22-25 March 1981:** 26 OHOLO Biological Conference/Israel
Plenary Lecture (presented by Dr D A Laidler) : Stereochemical Principles in the Function and Synthesis of Crown Ethers
84. **7-9 April 1981:** University of Surrey/Annual Chemical Congress/
Faraday Society Symposium on Thermodynamics of
Metal Ion Complexing with Crown Ethers and Cryptands
Invited Lecture : Stereochemical Principles in the Function and Synthesis of Crown Ethers
85. **29 April 1981:** University College/Cork/Eire
Research Colloquium : Stereochemical Principles in the Function and Synthesis of Synthetic Molecular Receptors
86. **30 April 1981:** University College/Dublin/Eire
Research Colloquium : Stereochemical Principles in the Function and Synthesis of Synthetic Molecular Receptors
87. **7 May 1981:** ICI Corporate Laboratory/Runcorn
Discussion Group Meeting Lecture : Coronated Transition Metal Complexes
88. **19-24 July 1981:** University of Bristol/International Symposium on the Chemistry of the Platinum Group Metals
Lecture : Second Sphere Coordination of Neutral and Cationic Metal Complexes of the Platinum Group by Crown Ethers
89. **21 October 1981:** University of Sheffield
Inorganic Chemistry Research Seminar : Second Sphere Coordination of Transition Metal Complexes by Crown Ethers
90. **3 December 1981:** Fine Chemical Group of the Society of Chemical Industry at Belgrave Square/London
Evening Lecture : Stereochemical Principles in the Function and Synthesis of Molecular Receptors based on Crown Ethers
91. **19 July 1982:** Smith, Kline & French Research Labs/The Frythe/Welwyn
Invited Lecture : Whence and Whither Supramolecular Chemistry
92. **2 September 1982:** Second International Symposium on Clathrate Compounds and Molecular Inclusion Phenomena/Parma
Plenary Lecture : Second Sphere Coordination of Transition Metal Complexes by Crown Ethers
93. **6-8 September 1982:** University of Messina/Italy
Visiting Lectureship to give two Lectures :

- (a) **Supramolecular Chemistry with Crown Ethers and Carbohydrates**
 (b) **Second Sphere Coordination of Transition Metal Complexes by Crown Ethers**
94. **22-29 October 1982:** Middle Rhine Lecture Tour/Basel/Freiburg/Karlsruhe/
 Mulhausen/Strasbourg
Lecture : Whence and Whither Supramolecular Chemistry
95. **7 December 1982:** Shell Research/Amsterdam
Invited Lecture : Whence and Whither Supramolecular Chemistry
96. **8 December 1982:** Twente University of Technology/Enschede/Holland
*Research Seminar : Whence and Whither Supramolecular Chemistry with Crown Ether
 Receptor Molecules*
97. **9 December 1982:** University of Leiden/Holland
*Research Seminar : Whence and Whither Supramolecular Chemistry with
 Crown Ether Receptor Molecules*
98. **10 December 1982:** University of Lancaster/NW England Section of the RSC
Invited Lecture : Coronated Transition Metal Complexes
99. **29 March 1982:** Heriot-Watt University/Royal Society of Edinburgh Hirst Symposium
Invited Lecture : Supramolecular Chemistry with Crown Ethers and Carbohydrates
100. **30 March 1982:** University of Sheffield/Sheffield-Leeds Organometallic Symposium
*Poster (with H M Colquhoun, S M Doughty, and D J Williams):
 Second Sphere Coordination - A New Role for Crown Ethers*
101. **11 August 1983:** Second European Symposium on Carbohydrates and
 Glycoconjugates/Budapest
Plenary Lecture : Supramolecular Chemistry with Crown Ethers and Carbohydrates
102. **13 September 1983:** International Symposium on Models of Enzyme Action /
 University of Sussex
Invited Lecture : Crown Ethers as Molecular Receptors for Transition Metal Complexes
103. **21 September 1983:** RSC Autumn Meeting/Perkin Division Symposium /
 College Swansea
Invited Lecture : The Design and Synthesis of Receptor Molecules of the Crown Ether Type
104. **25 Sept-2 Oct 1983:** Lecture Tour of Poland at Invitation of Polish Academy of
 Science/Warsaw/Gdansk/Lodz
Lecture : Crown Ethers as Molecular Hosts for Transition Metal Complexes and Related Guests
105. **9-11 April 1984:** RSC Carbohydrate Group Meeting/Queen Elizabeth College London
*Lecture : A Stereospecific Synthesis of out-out Isomers of Macrobicyclic
 Polyethers with Carbon Bridgeheads from D-mannitol*
106. **18-21 May 1984:** Gregynog Symposium/Wales
Lecture : Enantioselective Reductions with Chiral Borane-Ammonium Crown Ether Complexes
107. **30 May 1984:** New Process Technology Symposium/ICI Organics Division/Blackley
Invited Lecture : Stereoselective Synthesis
108. **21 August 1984:** University of Groningen/The Netherlands
Research Seminar : Crown Ethers as Molecular Receptors and Reagents
109. **22 August 1984:** University of Oldenburg/Germany
Research Seminar : Crown Ethers as Molecular Receptors and Reagents
110. **23 August 1984:** University of Munster/Germany
Research Seminar : Crown Ethers as Molecular Receptors and Reagents
111. **24 August 1984:** University of Bonn/Germany
Research Seminar : Crown Ethers as Molecular Receptors and Reagents
112. **27-30 August 1984:** Fifth International Conference on Organic Synthesis/
 (IUPAC)/Freiburg/Germany
*Invited Lecture : The Stereospecific Synthesis of Macrobicyclic and Macropolycyclic
 Polyethers from Carbohydrate Precursors*
113. **6-8 November 1984:** University of Messina/Sicily/Italy
Visiting Lectureship to give two Lectures :
 (a) **Crown Ether Adducts of Organometallic and Inorganic Complexes**

114. (b) **The Design and Synthesis of Molecular Receptors for Bipyridinium Herbicides**
9 November 1984: Symposium on Supermolecules: Biological and Chemical
Aspects/L'Accademia Nazionale dei Lincei/Rome/Italy
Plenary Lecture : Crown Ethers as Molecular Receptors and Reagents
115. **12 December 1984:** Macrocyclic Mini-symposium/Cambridge
Short Lecture (presented by Dr H Shahriari-Zavareh) : **Enantioselective Reductions of Aromatic
Ketones with Ammonia-Borane Complexes of Chiral Tetraphenyl-18-crown-6 Derivatives**
116. **13 December 1984:** Newcastle University
Schools Lecture : Chemical Holes
117. **22 January 1985:** Symposium on Progress in Heterocyclic Chemistry/
Scientific Societies Lecture Theatre/Saville Row
Invited Lecture : Crown Ethers as Molecular Receptors and Reagents
118. **7 March 1985:** Dyson Perrins Laboratory/University of Oxford
Research Colloquium : Crown Ethers as Molecular Receptors and Reagents
119. **1 April 1985:** RSC Carbohydrate Group Spring Meeting/Bristol
Contributed Paper (given by Mr D R Alston) : **Second Sphere Coordination of
Transition Metal Complexes by Cyclodextrins**
120. **27-31 May 1985:** Lecture Tour in Italy/Messina/Catania/Bologna
Four Lectures :
(a) **Stereoselective Synthesis**
(b) **Cyclodextrins as Second Sphere Ligands for Transition Metal Complexes**
(c) **Crown Ethers as Receptors and Reagents**
(d) **Second Sphere Coordination of Transition Metal Complexes**
121. **8-13 September 1985:** 30th IUPAC Congress of Pure and Applied
Chemistry/Manchester *Invited Lecture : Enantioselective Synthesis with Chiral Reagent
Complexes*
122. **15 November 1985:** Wyeth Research (UK) Ltd
Invited Lecture : Chemistry goes Extramolecular: Natural and Synthetic Molecular Receptors
123. **10 December 1985:** Smith Kline & French Research Ltd
Two Invited Lectures :
(a) **Enantioselective Synthesis with Chiral Reagent Complexes**
(b) **Designing and Synthesising Molecular Receptors for Diquat and
Paraquat: A Lesson in the Interdisciplinary Approach to Chemical Research**
124. **4 February 1986:** ICI Organics Division Two Day Seminar
After-Dinner Introductory Lecture : What Future Chemical Science and Technology?
125. **20 February 1986:** RSC Local Section/Manchester University
Schools Lecture : Chemical Holes and Catalysis
126. **26 February 1986:** Manchester University
*Organic Chemistry Research Colloquium : Making Molecular Receptors for
Diquat and Paraquat: A Tale in Symbiotic Research*
127. **27 February 1986:** Birmingham University
Inorganic Chemistry Research Colloquium : Extramolecular Chemistry
128. **14 March 1986:** ICI Plant Protection Division/Bracknell
Lecture : Complexing Paraquat and Diquat
129. **23 March-6 April 1986:** Lecture Tour at invitation of USSR Academy of Sciences/
Moscow/Odessa
*Lectures : Chemistry of the Noncovalent Bond: Molecular Receptors for Bipyridinium
Herbicides*
130. **10 April 1986:** RSC Annual Chemical Congress/Warwick/
Symposium on Chemistry and the Media
Lecture : Academic Chemistry in Britain: Towards a Brighter Future
131. **24-25 April 1986:** Organic Division of the Royal Netherlands Chemical
Society Symposium on Molecular Recognition/Wageningen
Plenary Lecture : Second Sphere Coordination: New Horizons for Molecular Receptors

132. **22-23 May 1986:** Table Ronde Roussel UCLAF/Paris
Invited Lecture : **Extramolecular Chemistry: Art as well as Science**
133. **25-28 May 1986:** Fourth International Symposium on Bio-organic
Heterocycles/Hengelhoeft/Belgium
Plenary Lecture : **Design and Synthesis of Molecular Receptors for Bipyridinium Herbicides**
134. **5-10 May 1986:** University of Messina/Italy
Lecture Course (6 Lectures) : **Contemporary Carbohydrate Chemistry**
135. **20 June 1986:** Smith Kline & French Ltd/R & D/Tonbridge
Lecture : **Enantioselective Synthesis and Catalysis**
136. **1-4 September 1986:** XI International Symposium on Macrocyclic Chemistry/Florence/Italy
Lecture : **Enantioselective Synthesis and Catalysis**
137. **29-31 October 1986:** Sheffield Industrial Forum
Research Theme Lecture : **Design and Synthesis of Novel Organic Zeolites**
Also contributions to the Refresher Course on Asymmetric Synthesis: Fundamentals and Practice
Lectures : (a) **Introduction to the Course** (b) **Enzyme Models**
138. **10-15 November 1986:** University of Messina/Italy
Lecture Course (6 Lectures) : **Contemporary Carbohydrate Chemistry**
Research Colloquium : **Stereoselective Synthesis: Enzyme Models**
139. **19 November 1986:** University of Liverpool
Organic Chemistry Colloquium : **A Lesson in Molecular Recognition: Designing Synthetic Molecular Receptors for Diquat and Paraquat**
140. **9 December 1986:** University of Loughborough
Research Colloquium : **A Lesson in Molecular Recognition: Designing Synthetic Molecular Receptors for Diquat and Paraquat**
141. **18 December 1986:** Biochemical Society Symposium on Enzyme Mimetic
Systems/University College London
Plenary Lecture : **The Extramolecular Chemical Approach to Enzyme Analogues**
142. **19 December 1986:** Beechams Pharmaceuticals Research Division/Great Burgh
Invited Lecture : **A Lesson in Molecular Recognition: Designing Synthetic Molecular Receptors for Diquat and Paraquat**
143. **28 January 1987:** Queen's University/Belfast
Invited Lecture to the Andrews Club : **Looking beyond the Molecule into Extramolecular Chemistry**
144. **29 January 1987:** University of Ulster/Coleraine
Invited Lecture : **A Lesson in Molecular Recognition: Designing Synthetic Molecular Receptors for Diquat and Paraquat**
145. **2-7 February 1987:** University of Messina/Italy
Lecture Course (6 Lectures) : **Crown Ethers**
Research Seminar : **Looking beyond the Molecule into Extramolecular Chemistry**
146. **13 February 1987:** Royal Dutch Shell Group/Amsterdam
Research Seminar : **The Scope and Fascination of Extramolecular Chemistry**
147. **24 February 1987:** Ministry of Defence/CDE/Porton Down
Research Seminar : *The Scope and Fascination of Extramolecular Chemistry*
148. **1 March-30 June 1987:** Ecole Nationale Supérieure de Chimie de Mulhouse
Lecture Course (20 Lectures) : **Molecular Recognition and Reaction Selectivity**
Research Seminar : **The Scope and Fascination of Extramolecular Chemistry**
149. **29 March-1 April 1987:** RSC Carbohydrate Meeting/Cambridge
Plenary Lecture : **Chemically-Modified Cyclodextrins: Complex is Understanding and Understanding is Complex**
150. **11-15 May 1987:** University of Messina/Italy
Lecture Course (10 Lectures) : **Chiral Crown Ethers**
Research Seminar : **Chemically-Modified Cyclodextrins: Complex is Understanding and Understanding is Complex**
151. **29 May 1987:** University of Konstanz

152. *Research Seminar : Molecular Belts in the Making*
4 June 1987: Instituto de Quimica Organica General/CSIC/Madrid
Research Seminar : Chemically-Modified Cyclodextrins: Complex is Understanding and Understanding is Complex
153. **5 June 1987:** Universidad Autonoma de Madrid
Organic Chemistry Research Seminar : The Scope and Fascination of Extramolecular Chemistry
154. **9 June 1987:** Imperial College London
Organic Chemistry Research Colloquium : The Scope and Fascination of Extramolecular Chemistry
155. **17 June 1987:** University of Strasbourg
Research Seminar : The Scope and Fascination of Extramolecular Chemistry
156. **23 June 1987:** University of Bologna
Research Seminar : The Scope and Fascination of Extramolecular Chemistry
157. **24 June 1987:** University of Milan
Research Seminar : Molecular Belts in the Making
158. **13-17 July 1987:** RSC Dalton Division/III International Conference on the Chemistry of Platinum Group Metals/Sheffield
Invited Lecture : Second Sphere Coordination of Platinum Group Metal Complexes
159. **18-19 July 1987:** Macrocyclic Symposium on Bioorganic and Bioinorganic Chemistry/Kyoto University
Invited Lecture : Chemically-Modified Cyclodextrins: Complex is Understanding and Understanding is Complex
160. **19-23 July 1987:** XII International Symposium on Macrocyclic Chemistry/Hiroshima
Invited Lecture : Molecular Belts in the Making
161. **24 July 1987:** Nagasaki University
Research Seminar : The Scope and Fascination of Extramolecular Chemistry
162. **27 July 1987:** Osaka University
Research Seminar: Chemically-modified Cyclodextrins: Complex is Understanding and Understanding is Complex
163. **28 July 1987:** Tohoku University/Sendai
Research Seminar: The Scope and Fascination of Extramolecular Chemistry
164. **29 July 1987:** Tokyo Institute of Technology
Research Seminar: Chemically-modified Cyclodextrins: Complex is Understanding and Understanding is Complex
165. **30 July 1987:** Tokyo University
Research Seminar: Molecular Belts in the Making
166. **30 July 1987:** Teijin Institute for Biomedical Research/Tokyo
Research Seminar: The Scope and Fascination of Extramolecular Chemistry
167. **18 August 1987:** ICI Chemicals & Polymers/Runcorn
Research Seminar: The Making of Molecular Belts
168. **30 Aug–4 Sept 1987:** 194th ACS National Meeting/Symposium on Stereoselective Synthesis of Carbohydrates from Acyclic Precursors / New Orleans
Plenary Lecture: Stereoselective Synthesis of Non-Carbohydrates from Cyclic Precursors
169. **16 September 1987:** Joint RSC/SOMER Industrial Forum on Chemistry/Industrial and Academic/Sheffield
Invited Lecture: Knowledge Transfer in the Chemical Sciences at the Academic-Industrial Interface: Lifeline and Lifeblood
170. **28 October 1987:** King's College London
Research Colloquium: In Search of New Synthetic Molecular Materials and Receptors
171. **2 November 1987:** MIT/Boston/USA
Research Seminar: In Search of New Synthetic Molecular Materials and Receptors
172. **3–6 November 1987:** Joint Japan-US Seminar/Miami
Invited Lecture: The Making of Molecular Belts and Collars

173. **7 November 1987:** Queen's University/Kingston/Canada
Research Seminar: In Search of New Synthetic Molecular Materials and Receptors
174. **9 November 1987:** Michigan State University/East Lansing/USA
Research Seminar: In Search of New Synthetic Molecular Materials and Receptors
175. **10 November 1987:** Kodak/Rochester/USA
Research Seminar: In Search of New Synthetic Molecular Materials and Receptors
176. **2 November 1987:** State University of New York/Stony Brook/USA
Research Seminar: In Search of New Synthetic Molecular Materials and Receptors
177. **13 November 1987:** University of Utah/Salt Lake City/USA
Research Seminar: In Search of New Synthetic Molecular Materials and Receptors
178. **20 November 1987:** University of Warwick
Organic Chemistry Seminar: Natural and Unnatural Molecular Receptors
179. **15 December 1987:** School of Pharmacy/University of London
Research Seminar: The Scope and Fascination of Extramolecular Chemistry
180. **25 January 1988:** University of Cambridge
Organic Chemistry Colloquium: In Search of New Synthetic Molecular Materials and Receptors
181. **22 February 1988:** University of Oxford
Inorganic Chemistry Colloquium: Second Sphere Coordination as a Supramolecular Phenomenon
182. **2 March 1988:** University of Nottingham
Organic Chemistry Colloquium: In Search of New Synthetic Molecular Materials and Receptors
183. **7 March 1988:** University of Bristol
Organic Chemistry Colloquium: In Search of New Synthetic Molecular Materials and Receptors
184. **28–30 March 1988:** RSC Carbohydrate Meeting/Oxford
Invited Lecture: Conformational Desymmetrisation in Chemically-Modified Cyclodextrins
185. **5-8 April 1988:** Convention Intercantonale Romande
 d'Enseignement du 3e Cycle en Chemie/Switzerland
Lecture Course on Supramolecular Chemistry:
 Fribourg: **The Fascination and Scope of Supramolecular Chemistry**
 Lausanne: **Second Sphere Coordination of Transition Metal Complexes by Crown Ethers**
 Berne: **The Supramolecular Chemical Approach to Enzyme Analogues**
 Fribourg: **Second Sphere Coordination of Transition Metal Complexes by Cyclodextrins**
 Fribourg: **The Future of Supramolecular Chemistry: A Personal View**
186. **12–15 April 1988:** RSC Annual Congress/Perkin Division/Symposium on
 Stereochemistry and Reactivity in Organic Chemistry /
 University of Kent
Invited Lecture: In Search of New Synthetic Molecular Materials and Receptors
187. **19–22 April 1988:** Fourth International Symposium on Cyclodextrins/Munich
Invited Lecture: Chemically-modified Cyclodextrins as Second Sphere Ligands
188. **20–23 May 1988:** European Symposium on Bioorganic Chemistry/Gregynog
*Invited Lecture: Second Sphere Coordination of Transition Metal Phosphines with
 Cyclodextrins*
189. **4–8 September 1988:** 13th International Symposium on Macrocyclic Chemistry /
 Hamburg/Germany
Plenary Lecture: Evolution of Molecular Belts and Collars
190. **18–23 September 1988:** Fifth International Symposium on Inclusion Phenomena and
 Molecular Recognition/Orange Beach / Alabama / USA
Invited Lecture: Shaping Molecular Receptors Inside-out and Shaking Them All About
191. **26–28 September 1988:** XIII European Colloquium on Heterocyclic
 Chemistry/University of Fribourg/Switzerland
Plenary Lecture: Molecular Belts and Collars
192. **26 October 1988:** University of Edinburgh
*Inorganic Chemistry Colloquium: Second Sphere Coordination as a Supramolecular
 Phenomenon*

193. **30 November 1988:** UMIST
Research Colloquium: Stereoelectronically-Controlled Molecular 'LEGO' Sets
194. **19 January 1989:** University of Strathclyde
Local RSC Lecture: Molecular Belts and Collars in the Making
195. **23 January 1989:** University of Sussex
General Seminar: Molecular 'LEGO'
196. **8 February 1989:** University College London/Birkbeck College
Research Colloquium: Substrate-Directed Synthesis
197. **13 February 1989:** University College Cardiff
Local RSC Lecture: Stereoelectronically-Controlled Molecular 'LEGO' Sets
198. **5–7 April 1989:** University of Miami/USA
Research Seminar: Structure-Directed Synthesis
199. **10 April 1989:** 197th ACS National Meeting/Hudson Symposium
Carbohydrate Division/Dallas/USA
Plenary Lecture: Chemically-Modifying Cyclodextrins
200. **17–21 April 1989:** International Symposium on Chemical and
Biochemical Problems in Molecular Recognition/Exeter
Invited Lecture: Structure-Directed Synthesis
201. **15–17 May 1989:** First Stanislao Cannizzaro Workshop on
Molecular Recognition / Enna / Italy
Plenary Lecture: Molecular Recognition and Unnatural Product Synthesis
202. **18 May 1989:** University of Messina
Research Seminar: Molecular Recognition and Unnatural Product Synthesis
203. **12 June 1989:** ICI Agrochemicals
Research Seminar: Structure-Directed Synthesis
204. **2–6 July 1989:** International Meeting on Storage and Transfer of
Molecular Information / Strasbourg / France
Invited Lecture: Molecular Recognition in Chemical Systems
205. **11 July 1989:** BP Sunbury
Research Seminar: Molecular Recognition in Chemical Systems
206. **22 August 1989:** Ciba-Geigy / Basel / Switzerland
Open Lecture: Structure-Directed Synthesis: A New Approach to Novel Materials
207. **27 Aug–1 Sept 1989:** Workshop on Supramolecular Organic Chemistry
and Photochemistry / Saarbrücken / Germany
Plenary Lecture : Template-Directed Synthesis of Polymolecular Assemblies
208. **11–15 September 1989:** Symposium on Molecular Recognition at BA
Advancement of Science Meeting/Sheffield
Invited Lecture: Molecular LEGO
209. **14 September 1989:** Joint Symposium: Biochemical Society/DTI
Invited Lecture: Design and Synthesis of Enzyme Analogues
210. **21 September 1989:** Kodak Ltd/Harrow
Research Seminar: The Template-Directed Synthesis of New Organic Materials
211. **29 September 1989:** Symposium on Organised Molecular Systems in
Chemical and Physical Processes/Parma/Italy
Invited Lecture: Molecular LEGO: The Template-Directed Synthesis of New Organic Materials
212. **16 November 1989:** Royal Holloway and Bedford College London
Student Chemical Society Lecture: Molecular LEGO
213. **28 November 1989:** RSC Local Section/South Wales/University
College Swansea
Invited Lecture: Molecular Abacuses and Chains Made to Order
214. **7 December 1989:** Fisons Pharmaceuticals/Loughborough
Research Seminar: Structure-Directed Synthesis
215. **11 December 1989:** Universität Mainz
Research Seminar: Recognition in Molecular Self-Assembly Processes

216. **12 December 1989:** Gesellschaft Deutscher Chemiker / Universität Bonn
Invited Lecture: Molecular LEGO: Template-Directed Synthesis of New Organic Materials
217. **15 December 1989:** CSIC Madrid
Invited Lecture: Molecular Cybernetics: Template-Directed Synthesis of Molecular Assemblies
218. **18 December 1989:** Rhône Poulenc/Lyon
Research Seminar: The Template-Directed Synthesis of New Organic Materials
219. **12 January 1990:** SERC Molecular Electronics Town Meeting/London
Short Lecture: Modular Chemical Approaches to Molecular Self-Processes
220. **29 January 1990:** Half-Day Symposium on Novel Molecules/Bristol
Invited Lecture: Rotaxanes and Catenanes Made to Order
221. **5 February 1990:** ETH Zürich
Invited Colloquium: Rotaxanes and Catenanes Made to Order
222. **6 February 1990:** Hoffman La Roche/Basel
Research Seminar: Molecular Self-Assembly Processes: Rotaxanes and Catenanes Made to Order
223. **13 February 1990:** Ecole Polytechnique / Paris
Research Seminar: Molecular Self-Assembly Processes: Rotaxanes and Catenanes Made to Order
224. **23–27 February 1990:** Hüttenseminar on Molecular Amplification and Reinforcement / Fachschafthaus am Shausinsland
Lecture: Molecular Recognition: Facts and Future
225. **28 February 1990:** Beecham Pharmaceuticals / Brockham Park
Research Colloquium: Making Molecules to Order by Structure-Directed Synthesis
226. **1 March 1990:** Student Chemical Society/University of Durham
Invited Lecture: Molecular LEGO
227. **7 March 1990:** RSC Local Section/Leicester
Lecture: Molecular LEGO: Substrate-Directed Synthesis
228. **27 March 1990:** SKF Symposium/Cambridge
Lecture: From Enzyme Mimics to Molecular Self-Assembly Processes
229. **2 April 1990:** Utrecht/The Netherlands
Research Seminar: Molecular LEGO: Template-Directed Synthesis of New Organic Materials
230. **5 May 1990:** David Gutsche Symposium/Washington University/St Louis
Lecture: Recognition in Molecular Self-Assembly Processes
231. **7 May 1990:** UC San Diego/California
Research Seminar: Recognition in Molecular Self-Assembly Processes
232. **9 May 1990:** Caltech/California
Research Seminar: Recognition in Molecular Self-Assembly Processes
233. **10 May 1990:** UCLA/Los Angeles
Research Seminar: Recognition in Molecular Self-Assembly Processes
234. **14 May 1990:** Columbia University/New York
Research Seminar: Molecular LEGO: Substrate-Directed Synthesis
235. **15 May 1990:** Leermakers Symposium/Wesleyan University/ Connecticut
Lecture: Recognition in Molecular Self-Assembly Processes
236. **25–29 June 1990:** Gordon Conference on Biocatalysis / Plymouth State College/NH
Lecture: From Enzyme Mimics to Molecular Self-Assembly Processes
237. **2–5 July 1990:** Ciba Foundation Symposium/London
Lecture: Molecular Self-Assembly Processes
238. **12–13 July 1990:** Roussel Scientific Institute/First Table Ronde / Oxford
Lecture: Molecular Self-Assembly Processes
239. **15–20 July 1990:** CIC Annual Conference/Halifax/Canada
Lecture : Recognition in Molecular Self-Assembly Processes
240. **13–18 August 1990:** XXVIII International Conference on Co-ordination Chemistry/Gera/Germany

241. *Plenary Lecture : Second Sphere Coordination*
3–8 September 1990: XV International Symposium on Macrocyclic
 Chemistry/Odessa/USSR
242. *Invited Lecture : Molecular LEGO: Rotaxanes and Catenanes Made to Order*
10–15 September 1990: VI Inclusion Phenomena Symposium/Berlin/Germany
243. *Invited Lecture : Molecular Self-Assembly Processes*
16–19 September 1990: First International Summer School on Supramolecular
 Compounds/Strasbourg/France
244. *Invited Lecture : Recognition in Molecular Self-Assembly Processes*
26 September 1990: Hamburg/Germany
245. *Research Seminar : Molecular Meccano: Catenanes and Rotaxanes Made to Order*
27–29 September 1990: ORCHEM '90/Bad Nauheim / Germany
246. *Invited Lecture : Molecular LEGO: Substrate-Directed Synthesis*
17 October 1990: ICI/Runcorn
247. *Lecture : Molecular Self-Assembly Processes*
18 October 1990: Birmingham/Special Lecture Programme
248. *Lecture : Molecular Meccano: Making Molecules to Order*
12 November 1990: Rhone-Poulenc Rorer Ltd/Dagenham
249. *Lecture : Molecular Self-Assembly Processes*
13 November 1990: University of Kent
250. *Research Seminar : Molecular Meccano: Rotaxanes and Catenanes Made to Order*
3–5 December 1990: SERC/Japan Meeting on Molecular Electronics & Bioelectronics /
 Tokyo / Japan
251. *Lecture : Making Molecules to Order by Molecular Self-Assembly Processes*
7 December 1990: Tohoku University / Sendai / Japan
252. *Research Seminar : Making Molecules to Order by Molecular Self-Assembly Processes*
7–8 January 1991: UK Macrocyclic Group/University of Manchester
253. *Lecture : Molecular Meccano: Rotaxanes and Catenanes Made to Order*
10 January 1991: Visiting Speaker Programme at Courtaulds Research/Coventry
254. *Lecture : Molecular Meccano: Making Molecules to Order*
16 January 1991: RSC Local Section/Huddersfield Polytechnic
255. *Lecture : Structure-Directed Synthesis*
4–5 February 1991: Named Lecture and Chemistry Department
 Colloquium/Washington University/St Louis/USA:
256. *Lectures : Molecular Meccano: Making Molecules to Order Substrate-Directed Synthesis*
6 February 1991: University of Illinois/Chicago/USA
257. *Research Seminar : Self-Assembly in Organic Synthesis*
7 February 1991: Pfizer Lecture/Ohio State/Columbus/USA
258. *Lecture : Self-Assembly in Organic Synthesis*
8 February 1991: Pfizer Lecture/Pfizer Laboratories/Gorton/Connecticut/USA
259. *Lecture : Self-Assembly in Organic Synthesis*
27 February 1991: RSC Local Section/Aberdeen
260. *Lecture : Molecular Meccano*
1 March 1991: Clifton College Scientific Society/Clifton College/Bristol
261. *Lecture : Molecular Meccano: Making Molecules to Order*
8 March 1991: Chemical Society's Inaugural Lecture/University College/Dublin
262. *Lecture : Molecular Meccano: Making Molecules to Order*
13 March 1991: Glaxo/Greenford
263. *Research Colloquium : Molecular Self-Assembly Processes*
20 March 1991: University of Southampton
264. *Research Seminar : Molecular Self-Assembly Processes*
25 March 1991: Molecular Recognition Centre/School of Medical Sciences /
 University of Bristol
- Lecture : Molecular Self-Assembly Processes*

265. **14–19 April 1991:** Symposium at ACS Meeting on New Polymerization Reactions and Reaction Mechanisms/Atlanta / USA
Lectures : Structure-Directed Synthesis of Polyacene Derivatives
Template-Directed Synthesis of Polymolecular Assemblies
 Symposium at ACS Meeting on Design of Metal Specific Ligands/Atlanta/GA
Lecture : Second Sphere Coordination and Beyond
266. **22 May 1991:** Greater Manchester Symposium/Salford
Lecture : Self-Assembly in Organic Synthesis
267. **3 June 1991:** Merck Sharp & Dohme Research Laboratories/Harlow
Research Seminar : Self-Assembly in Organic Synthesis
268. **13 June 1991:** Bath
Research Colloquium : Molecular Meccano: Making Molecules to Order
269. **5–8 July 1991:** European Research Conference on Supramolecular Chemistry/Le Bischenberg/Strasbourg
Lecture : Molecular Meccano: Making Molecules to Order
270. **30–31 August 1991:** Rank Prize Funds Workshop on Cages, Crowns, and Coulombs/Wordsworth Hotel/Grasmere:
Lecture : Tethering Compounds: Ordering Molecules Around
271. **8–10 September 1991:** EUROCARB VI/Heriot-Watt University/Edinburgh
Invited Lecture : Chemically-Modified Cyclodextrins
272. **11–13 September 1991:** Euchem Conference on Supramolecular Reactivity and Catalysis/Padova/Italy
Lecture : Molecular Self-Assembly Processes
273. **20–21 September 1991:** Symposium on Organic Chemistry / Akademia Leopoldina / Halle/Germany
Lecture : Molecular Self-Assembly Processes
274. **25–27 September 1991:** 11 Regio Symposium on Organic and Bioorganic Chemistry/Sornetan/Swiss Jura
Lectures : Molecular LEGO: Substrate Directed Synthesis
Molecular Meccano: Making Molecules to Order
275. **30 Sept–2 Oct 1991:** Conference on Supramolecular Aspects of Polymer Synthesis and Polymer Structure/Mainz/Germany
Lecture : Towards Synthetic Supramolecular Polymers
276. **16 October 1991:** RSC Heterocyclic Group Autumn Meeting/ICI Specialities/Blackley/Manchester
Plenary Lecture : Self-Assembly in Organic Synthesis
277. **31 October 1991:** ICI Science Strategy Group/ICI Specialities/Blackley/Manchester
Presentation : Chemistry in the 21st Century
278. **18–21 November 1991:** Dupont Lectures at Berkeley/California
First Lecture : Self-Assembly in Organic Synthesis
Second Lecture : Substrate-Directed Synthesis
279. **22 November 1991:** University of Nevada/Reno
Research Seminar : Self-Assembly in Organic Synthesis
280. **15-19 December 1991:** II NATO Science Forum on Supramolecular Chemistry/Taormina/Sicily
Opening Lecture : Self-Assembly in Organic Synthesis
281. **8 January 1992:** GDCh Lecture/BASF/Ludwigshafen/Germany
Lecture : Self-Assembly in Organic Synthesis
282. **17 February 1992:** Birmingham University
Inaugural Lecture: Whither and Thither Molecular Machines: A Vision of Chemistry and a Mission for Chemists in the 21st Century
283. **27 February 1992:** Imperial College London Chemical Society

284. *Lecture : Molecular Meccano: Making Molecules to Order*
12 March 1992: Birmingham University Open Day
285. *Lecture : Molecular Meccano*
19 March 1992: Dyson Perrins/University of Oxford
286. *Research Colloquium: Self-Assembly in Organic Synthesis*
30 March–1 April 1992: RSC Fine Chemicals Group Meeting on
 Chemical Opportunity Sensor Research/University of Liverpool
- Lecture: From Molecular Receptors to Molecular Sensors*
 (Presented by Dr R A Bissell)
287. **6–10 April 1992:** RSC Second International Symposium on
 Chemical and Biochemical Problems in Molecular
 Recognition/University of Exeter
- Lecture : Self-Assembly in Organic Synthesis*
288. **10–16 May 1992:** 5th Cyprus Conference on New Methods in Drug Research /
 Larnica / Cyprus
- Invited Lecture : Molecular Recognition and Self-Assembly Processes*
 (Presented by Prof W D Ollis)
289. **22–26 June 1992:** GordonResearch Conference on Bioorganic
 Chemistry/Plymouth/New Hampshire
- Invited Lecture : Molecular and Supramolecular Self-Assembly Processes*
290. **8 July 1992:** University of Sydney Chemical Society/Australia
- Ernest Ritchie Memorial Lecture : Self-Assembly in Organic Synthesis*
291. **9 July 1992:** University of New South Wales/Sydney/Australia
- Research Seminar: Structure-Directed Synthesis of Cyclacene and Polyacene Derivatives*
292. **10–11 July 1992:** Second Australian Symposium on Molecular Engineering
 University of Sydney/Australia
- Invited Lecture : Whither and Thither Molecular Machines*
293. **13 July 1992:** University of Melbourne/Australia
- Departmental Seminar : Molecular and Supramolecular Self-Assembly Processes*
294. **15 July 1992:** ANU/Canberra/Australia
- Research Seminar : Molecular and Supramolecular Self-Assembly Processes*
295. **16 July 1992:** University of New England/Armidale/Australia
- Research Seminar : Molecular and Supramolecular Self-Assembly Processes*
296. **19–23 July 1992:** 7th International Symposium on Novel Aromatic Compounds
 Victoria BC/Canada
- Plenary Lecture : Structure-Directed Synthesis of Cyclacene and Polyacene Derivatives*
297. **24 July 1992:** Simon Fraser University/Vancouver/Canada
- Research Seminar : Self-Assembly in Organic Synthesis*
298. **30 August–1 Sept 1992:** Seminar on Molecular Recognition and
 Communication at Champéry/Switzerland
- Series of Lectures : Supramolecular Chemistry*
299. **10 September 1992:** BASF Summer School on Supramolecular
 Chemistry at St Johannis/Germany
- Series of Lectures : Self-Assembly Processes*
300. **16–18 September 1992:** RSC Perkin Division Symposium on Working Molecules/TCD/Ireland
- Invited Lecture : Whither and Thither Molecular Machines*
301. **23 September 1992:** RSC Symposium for Schoolteachers/University of Birmingham
- Lecture : Molecular Meccano: Molecules to Order*
302. **9–10 October 1992:** 7th Annual WS Johnson Symposium in Organic Chemistry/Stanford
 University/California
- Invited Lecture : Self-Assembly in Organic Synthesis*
303. **13–16 October 1992:** NATO ARW on Computations for the Nanoscale/Aspet/France
- Invited Lecture : Molecular and Supramolecular Self-Assembly Processes*
 (Presented by Mr D Philp)

304. **19 October 1992:** RSC Local Lecture/University of Keele
Lecture : Molecular Meccano: Making Molecules to Order
305. **5 November 1992:** RSC Local Lecture/University of Exeter
Lecture : Molecular Meccano: Making Molecules to Order
306. **19–21 November 1992:** Dalhousie University/Halifax/Canada
Walter J Chute Distinguished Lecture : Self-Assembly: Whither and Thither Molecular Machines
Research Seminar : Structure-Directed Synthesis
307. **2 December 1992:** Brunel University
Research Seminar : Molecular Meccano: Making Molecules to Order
308. **20 January 1993:** Roche Research Centre/Welwyn Garden City
Research Seminar : Self-Assembly in Organic Synthesis
309. **26 January 1993:** King's College London: RSC Chilterns and Middlesex Section Lecture
Lecture : Molecular Meccano: Making Molecules to Order
310. **29 January 1993:** Shrewsbury School Science Department: Sixth Form Talk
Lecture : Molecular Meccano
311. **26 February 1993:** University of Dundee
Lecture : Self-Assembly: Whither and Thither Molecular Machines
312. **1–5 March 1993:** Atlantic Coast Lectureship: University of Maryland
Virginia Polytechnic Institute & State University
Duke University
University of South Carolina
University of Miami
Lecture : Self-Assembly in Organic Synthesis
313. **11 March 1993:** Pfizer Central Research
Research Seminar : Self-Assembly in Organic Synthesis
314. **18 March 1993:** Strasbourg University/France: First Janssen Lecture
Lecture : Self-Assembly in Unnatural Product Synthesis
315. **22 March 1993:** Wolverhampton Polytechnic: RSC Lecture to West Midlands Section
Lecture : Molecular Meccano: Making Molecules to Order
316. **28 March–1 April 1993:** ACS National Meeting in Denver/Colorado: International Symposium on New Macromolecular Architectures and Supramolecular Polymers
Invited Lecture : Self-Assembly and Shuttling Properties of Some Multisite [2]Rotaxanes
317. **2 April 1993:** Abbott Laboratories/North Chicago
Research Seminar : Self-Assembly in Organic Synthesis
318. **5–8 April 1993:** RSC Annual Chemical Congress: Symposium on Design Synthesis and Characterisation of New Materials / Southampton University:
Plenary Lecture : Self-Assembly: Whither and Thither Molecular Machines
319. **12–14 April 1993:** Palma de Mallorca/Spain: XIV Biennial Spanish Organic Chemistry Society Meeting
Plenary Lecture: Molecular Recognition and Self-Assembly
320. **20 April 1993:** Heriot-Watt University: RSC Edinburgh and South East Scotland
Lecture : Molecular Meccano: Making Molecules to Order
321. **26–30 April 1993:** High Polymer Research Conference/Moretonhampstead/Devon
Invited Lecture : Self-Assembling Catenanes, Rotaxanes, and Double Helicates: New Approaches to Novel Polymer Systems
322. **12 May 1993:** London: SCI Carbohydrate Meeting
Invited Lecture : Cyclodextrins: Linking Lampshades
323. **2 June 1993:** Minnesota 3M Research Limited: Technical Forum Lecture
Lecture : Self-Assembly: Whither and Thither Molecular Machines
324. **7–8 June 1993:** Odense/Denmark: Annual Meeting of the Danish Chemical Society
Main Plenary Lecture : Self-Assembly: Whither and Thither Molecular Machines
325. **29 June-2 July 1993:** Twente University/Enschede/The Netherlands:

- 18th International Symposium on Macrocyclic Chemistry
Izatt-Christensen Award Lecture : **Self-Assembly in Unnatural Product Synthesis**
 326. **11–16 July 1993:** University of Newcastle: 4 ESOR & 2MMBP
- Section Plenary Lecture* : **Molecular Self-Assembly Processes in Chemical Systems**
 327. **26–28 July 1993:** Bielefeld/Germany: Workshop on Important Phenomena in
 Chemistry: Towards the Understanding of Some Basic
 Principles in Biology and the Use of Molecules in Technology
- Invited Lecture* : **From Dyes and Drugs – to Devices. Is the Vehicle Molecular Self-Assembly
 Processes?**
 328. **29 August–3 Sept 1993:** Barcelona/Spain: Eighth European Symposium on Organic
 Chemistry (ESOC-8)
- Plenary Lecture* : **Self-Assembly in Organic Synthesis**
 329. **2–5 September 1993:** Strasbourg/France: NATO ARW on
 Computational Approaches in Supramolecular
 Chemistry
- Invited Lecture* : **Self-Assembly in Synthesis**
 330. **7 September 1993:** Hamburg/Germany: GDCh Meeting
- Plenary Lecture* : **Self-Assembly in Unnatural Product Synthesis**
 331. **29 November-3 December 1993:**
 Boston/MA: Symposium on Biomolecular Materials by Design
- Invited Lecture* : **Chemical Synthesis of Nanostructures**
 332. **29 November-3 December 1993:**
 Kodak/Rochester/NY: Research Seminar
- Lecture* : **Whither and Thither Molecular Machines**
 333. **29 November-3 December 1993:**
 GE/Corporate Research and Development/
 Schenectady/NY: Research Seminar
- Lecture* : **Whither and Thither Molecular Machines**
 334. **13–16 January 1994:** Norwegian Organic Chemistry Meeting: Fefor/Norway:
 Two Invited Lectures
- Lectures* : **Self-Assembly in Organic Synthesis**
Catenated Cyclodextrins
 335. **28 January 1994:** Unilever Research/Port Sunlight: Research Seminar
- Lecture* : **Self-Assembly in Organic Synthesis**
 336. **3 March 1994:** Edinburgh University: Walker Memorial Lecture
- Lecture* : **Self-Assembly in Chemical Systems**
 337. **11–13 March 1994:** UCLA/CA: Symposium Honoring Donald J Cram
- Lecture* : **Self-Assembly in Chemical Systems**
 338. **29 March 1994:** Fisons/Loughborough: Research Seminar
- Lecture* : **Self-Assembly: A New Concept in Organic Synthesis**
 339. **30 March 1994:** Royal Society/London: Press Briefing on
 Nanoscience: The Fore-Runner to Nanotechnology
- Lecture* : **Nanoscience: At a Molecular Level**
 340. **5–8 April 1994:** NATO ARW on The Ultimate Limits of Fabrication and Measurement
- Lecture* : **Self-Assembly: Whither and Thither Molecular Machines**
 341. **19–21 April 1994:** Birmingham University: Macro Group UK 4th
 Family Meeting on Making and Breaking and Using Chains
- Invited Lecture* : **Self-Assembly in Polymer Synthesis**
 342. **23 April 1994:** Bristol/UK: One Day Symposium by the British Computer
 Society Cybernetics Machine Group on One Day will all
 Supercomputers be Wet? Hardware *versus* Software!
- Invited Lecture* : **Molecular Self-Assembly**
 343. **27 April 1994:** ZENECA Pharmaceuticals/Mereside: Research Colloquium
- Lecture* : **Self-Assembly: A New Concept in Organic Synthesis**

344. **29 April 1994:** University of Louvain/Belgium: Chaire Bruylants Award
Lecture : Self-Assembly in Chemical Synthesis
345. **7–11 May 1994:** Hindsgravl/Denmark: NATO ARW on Molecular Engineering for Advanced Materials
Lecture: The Self-Assembly of Redox-Active and Photo-Active Catenanes and Rotaxanes
346. **13–19 May 1994:** Ravello/Italy: NATO ASI Workshop on Chemical Synthesis: Gnosis to Prognosis
Two Main Lectures : Self-Assembly in Chemical Systems
Making Unnatural Products by Natural Means
347. **11–13 July 1994:** Namur/Belgium: Fifth Belgian Organic Synthesis Symposium
Invited Lecture : Self-Assembly in Organic Synthesis
348. **13–15 July 1994:** Akron/Ohio: IUPAC International Symposium on Macromolecules
Invited Lecture : Towards Supramolecular Polymers
349. **24–29 July 1994:** Birmingham University: RSC Perkin Division Symposium on Recognition Processes Host and Joint-Organiser
350. **31 July-5 August 1994:** Ottawa/Canada: Eighth International Symposium on Molecular Recognition and Inclusion
Invited Lecture : Self-Assembly in Chemical Systems
351. **11–16 August 1994:** Mainz/Germany: European Research Conference on Supramolecular Chemistry [Attending as a Discussion Leader]
352. **15–19 September 1994:** Reykjavik/Iceland: NATO ARW on Supramolecular Stereochemistry
Lecture: Template Directed Synthesis [Presented by Dr D B Amabilino]
353. **29 September 1994:** Johnson Matthey Biomedical Research/West Chester/PA
Research Seminar : Self-Assembly in Organic Synthesis
354. **30 September 1994:** Princeton University/New Jersey
Seminar : Whither and Thither Molecular Machines
355. **30 September 1994:** Princeton/New Jersey: Princeton ACS Fall Symposium
Invited Lecture : Self-Assembly in Organic Synthesis
356. **6–9 November 1994:** Ohtsu/Kyoto/Japan: The Taniguchi Conference on "Working Molecular Systems - Design and Synthesis"
Lecture : Whither and Thither Molecular Machines
357. **11 November 1994:** State University of New York at Albany: Sixth Henry G Kuiliva Lecture
Lecture : Self-Assembly in Chemical Systems
358. **2 December 1994:** Tokyo/Japan: Mini-Symposium on Supramolecular Chemistry
Invited Lecture : Self-Assembly in Chemical Synthesis
359. **3 December 1994:** Kyoto/Japan: Division of Molecular Engineering at Kyoto University
Departmental Seminar : Self-Assembly in Chemical Systems
360. **16 February 1995:** Warwick/UK: RSC Lecture
Lecture : Self-Assembly: Whither and Thither Molecular Machines
361. **17 February 1995:** University of Kaiserslautern/Germany: Adolf Steinhof Foundation Award Lecture
Lecture : Self-Assembly in Chemical Systems
362. **20 February 1995:** University of Regensburg/Germany: Sandoz Foundation Lecture Series
Invited Lecture : Self-Assembly in Chemical Systems
363. **17 March 1995:** ZENECA Specialties/Blackley: Seminar
Lecture : Self-Assembly in Chemical Systems
364. **2–7 April 1995:** Anaheim/California: ACS National Meeting. International Symposium on Well-Defined Macromolecules for Function and Assembly
Invited Lecture : The Self-Assembly of Two Bis[2]catenanes and a Bis[2]rotaxane – Model compounds for Mechanically-Linked Polymers
365. **7 April 1995:** Naval Research Laboratory/Washington: Chemistry Colloquium
Lecture : Whither and Thither Molecular Machines

366. **10–12 April 1995:** Cornell University: 1995 Miles Lectures
Lecture 1 : Self-Assembly in Chemical Systems
Lecture 2 : Nanotechnology: Whither and Thither Molecular Machines
Lecture 3 : Towards Supramolecular Polymers
367. **20–25 April 1995:** University of Chicago/Abbott Laboratories/University of Wisconsin at Milwaukee
Lecture : Making Molecules to Order: Self-Assembly in Organic Synthesis
368. **27–28 May 1995:** Paris/France: Nature Conference on the Science of Complex Molecular Systems
Lecture : Molecular Nanostructures
369. **8–11 May 1995:** Rolduc Abbey/The Netherlands: Rolduc Polymer Meeting
Plenary Lecture : Towards Supramolecular Polymers
370. **18–21 May 1995:** University of Zaragoza/Spain
Lecture : Self-Assembly: Whither and Thither Molecular Machines
371. **11–15 June 1995:** College of William and Mary/Williamsburg/Virginia: Division of Organic Chemistry of the American Chemical Society: 34th National Organic Symposium
Plenary Lecture : Self-Assembly in Organic Synthesis
372. **21–24 June 1995:** Vulcano Island/Italy: EUCHEM Conference on Cycloadditions and Related Reactions: Theory and Practice
Plenary Lecture : Structure-Directed Synthesis
373. **2–7 July 1995:** Jerusalem/Israel: XXth International Symposium on Macrocyclic Compounds
Invited Lecture : Self-Assembly in Chemical Systems
374. **16–21 July 1995:** Salve Regina University/Newport/RI: 1995 Organic Photochemistry Gordon Conference
Lecture : Self-Assembly: Whither and Thither Molecular Machines
375. **23–28 July 1995:** New England College in Henniker/New Hampshire: 1995 Gordon Research Conference on Chemistry of Supermolecules and Assemblies
Lecture : Molecular Self-Assembly Processes
376. **31 July–4 Aug 1995:** Braunschweig/Germany: 8th International Symposium on Novel Aromatic Compounds
Main Lecture : Self-Assembly in Chemical Systems
377. **8–12 September 1995:** Aspen Lodge in Estes Park, Boulder: NATO ARW on Modular Chemistry
Poster/Lecture: New Modules – New Families of Interlocked Molecules
378. **16–17 September 1995:** Bordeaux/France: NATO ARW on Magnetism: A Supramolecular Function
Lecture : Self-Assembly in Organic Synthesis
379. **20–23 September 1995:** Il Ciocco/Nr Pisa/Italy: NATO ASI on New Trends in Materials Chemistry
Lecture 1: Self-Assembly in Chemical Systems
Lecture 2: Molecular Machines
380. **2 October 1995:** ETH/Zürich/Switzerland: COST Workshop on Interdisciplinary Aspects of Nanoscience
Presentation : Self-Assembly at the Nanoscale Level with Chemical Systems
381. **16 October 1995:** Bristol University: Wilson Baker Lecture
Lecture : Self-Assembly in Organic Synthesis
382. **23–24 October 1995:** Houston/Texas: Welch Foundation Conference on Nanophase Chemistry
Invited Lecture : Molecular Nanostructures
383. **25 October 1995:** Rice/Houston/Texas: Chemical Engineering Department Seminar
Lecture : Self-Assembly in Chemical Systems

384. **9–11 November 1995:** Palo Alto/California: The Fourth Foresight Technology Conference on Molecular Nanotechnology
Lecture : The Art and Science of Self-Assembling Molecular Machines
385. **12–16 November 1995:** Jerusalem/Israel: Seventh International Symposium on Chiral Discrimination
Plenary Lecture : Chiral Catenanes
386. **17 November 1995:** Tel-Aviv/Israel: Departmental Seminar
Lecture : New Modules - A New Family of Interlocked Molecules
387. **18–22 November 1995:** Kuwait University: Visiting Professorship
Lecture 1 : Self-Assembly in Chemical Systems
Lecture 2 : Whither and Thither Molecular Machines
Lecture 3 : Supramolecular Polymers
388. **30 November 1995:** ZENECA Agrochemicals/Jealott's Hill/Bracknell: Chemistry Department Lecture
Lecture : Self-Assembly in Chemical Systems
389. **7 December 1995:** Bayer AG/Leverkusen/Germany: Lecture
Lecture : Self-Assembly in Chemical Systems
390. **8 December 1995:** Universität Mainz/Germany: Lecture
Lecture : Towards a New Family of Interlocked Molecules
391. **10–11 December 1995:** Universität Heidelberg/Germany: Graduiertenkolleg
Lecture : Self-Assembly in Chemical Systems
392. **8–12 January 1996:** National Institute of Materials and Chemical Research AIST/MITI/Tsukuba/Japan
Lecture : Self-Assembly in Chemical Systems
Seminar 1 : Molecular and Supramolecular Nanomachines
Seminar 2 : The Genesis of a New Family of Interlocked Molecules
393. **16 January 1996:** Kyushu University Faculties of Engineering and Science/Fukuoka/Japan
Joint Seminar: Self-Assembly in Chemical Systems
394. **30 January 1996:** University of California at Los Angeles
Lecture : Molecular and Supramolecular Nanostructures and Nanomachines
395. **17 February 1996:** Birmingham Lunar Society
Lecture : Learning to Read and Write in Chemistry
396. **25 March 1996:** RSC Carbohydrate Group Spring Meeting, St Andrews
Lecture : Constructing Carbohydrates on the Nanoscale
397. **27 March 1996:** Wilen Memorial Symposium, ACS Spring Meeting at New Orleans
Lecture : Self-Assembly in Chemical Synthesis
398. **28–29 March 1996:** UNC/Chapel Hill
Lecture 1 : Self-Assembly in Chemical Synthesis
Lecture 2 : The Genesis of a New Family of Interlocked Molecules
399. **1–3 April 1996:** Vista Chemical Company-Regents Endowed Memorial Lecture Series/University of Texas at Austin
Lecture 1 : Self-Assembly in Chemical Synthesis
Lecture 2 : The Genesis of a New Family of Interlocked Molecules
Lecture 3 : Constructing Carbohydrates on the Nanoscale
400. **4 April 1996:** University of Houston/Texas
Seminar : Molecular and Supramolecular Nanomachines
401. **15–16 April 1996:** European Physical Society Industrial Workshop on Nanoscale Science and Technology/Birmingham
Lecture : Molecular and Supramolecular Nanostructures
402. **16–22 May 1996:** NATO ARW/Quebec
Lecture : Combining Different Recognition Motifs to Self-Assemble Multicomponent Superstructures
403. **28–31 May 1996:** Wichita/Kansas

- Seminar 1 : Molecular and Supramolecular Nanostructures and Nanomachines*
Seminar 2 : The Genesis of a New Family of Interlocked Molecules
Seminar 3 : Constructing Carbohydrates on the Nanoscale
404. **6 June 1996:** Royal Society/Ciba Foundation Meeting/London
Invited Lecture : The Self-Assembly of Molecular and Supramolecular Switches
405. **25–26 August 1996:** 1996 Fall ACS Meeting: Symposium on
 Supramolecular Systems/Orlando/Florida
Lecture : Molecular Self-Assembly Processes
406. **27–30 August 1996:** 13th IUPAC Conference on Physical Organic Chemistry/Seoul/Korea
Lecture : Nanoscale Construction on the Molecular Level
407. **30 August 1996:** Pohang University/Korea
Lecture : Molecular and Supramolecular Nanostructures and Nanomachines
408. **9–13 September 1996:** British Association Meeting Chemistry Section/Birmingham
Presidential Address : Learning to Read and Write in Chemistry
409. **15–19 September 1996:** 20th Symposium on the Chemistry of Natural Products/Chicago/USA
Plenary Lecture : Concept Transfer from the Life Sciences into Materials Science
410. **19–21 September 1996:** Gulf Coast Chemistry Conference/Pensacola Beach/Florida
Invited Lecture : Self-Assembly in Action and at Work
411. **24–28 September 1996:** Gordon Research Conference on Organic
 Structures and Properties/Fukuoka/Japan
Main Talk : Self-Assembly in Action and at Work
412. **24 October 1996:** 24th Biennial Philadelphia Organic Chemists' Club Symposium
Lecture : Self-Assembly in Action and at Work
413. **31 Oct–1 Nov 1996:** 6th Symposium of the NSR Research School/Dalfsen/The
 Netherlands
Lecture : Molecular and Supramolecular Self-Assembly Processes
414. **23–24 November 1996:** Bio-MaDe Workshop on Bio-Organic Materials
 and Devices/Royal Dutch Academy of Sciences/Amsterdam
Lecture : The Self-Assembly of Molecular and Supramolecular Switches
415. **7 December 1996** Symposium to celebrate 60th birthday of V Balzani/Bologna
Lecture : Self-Assembly in Action and at Work
416. **9 December 1996:** 2nd Schloessmann Seminar on Nanostructures in Biology,
 Chemistry and Physics/Garmisch
Lecture : Self-Assembly in Action and at Work
417. **17 December 1996:** 30th Annual Meeting on Modern Aspects of
 Stereochemistry/Sheffield University
Lecture : Self-Assembly in Action and at Work
418. **13 January 1997:** Organic Colloquium/Cambridge University
Lecture : Molecular and Supramolecular Self-Assembly Processes
419. **21–22 February 1997:** Symposium on Nanochemistry/University of Southern California/Los
 Angeles
Lecture : Whither and Thither Self-Assembling Molecular and Supramolecular Machines
420. **3–4 March 1997:** Bernard Belleau Memorial Lectures in Chemistry
 McGill University and Bio-Chem Pharma/Montreal
Lecture at Bio-Chem Pharma : Constructing Carbohydrates on the Nanoscale
Lecture at McGill : Molecular and Supramolecular Nanostructures and Nanomachines
421. **5 March 1997:** Université Laval/Quebec
Seminar : Molecular and Supramolecular Self-Assembly Processes
422. **24 March 1997:** Swarthmore College/Pennsylvania
Lecture : Molecular and Supramolecular Self-Assembly Processes
423. **25–28 March 1997:** 1991 Leo H Sternbach Lectures/Yale University
Lecture 1 : Molecular and Supramolecular Self-Assembly Processes
Lecture 2 : The Nature of the Mechanical Bond
424. **7–10 April 1997:** 1997 Hutchison Memorial Lectures/University of Rochester

- Lecture 1 : Molecular and Supramolecular Nanostructures and Nanomachines*
Lecture 2 : Constructing Carbohydrates on the Nanoscale
Lecture 3 : The Nature of the Mechanical Bond
425. **21 April 1997:** Academy of Sciences of the Czech Republic/Prague
Lecture : Adventures in Modular Chemistry
426. **22 April 1997:** Prague Institute of Chemical Technology
Lecture : Molecular and Supramolecular Nanosystems and Nanomachines
427. **22–24 June 1997:** Gordon Research Conference on Carbohydrates
 Tilton, New Hampshire
Lecture : Constructing Carbohydrates on the Nanoscale
428. **26–27 June 1997:** Cambridge Healthtech Institute's Conference on
 Nanotechnology/San Francisco
*Lecture : Self-Assembly of Molecular and Supramolecular Nanostructures and
 Nanomachines*
429. **2 August 1997:** Soong Sil University/Seoul
*Lecture 1: Self-Assembly of Molecular and Supramolecular Nanostructures and
 Nanomachines*
Lecture 2 : The New Chemistry
430. **3–8 August 1997:** XXII International Symposium on Macrocyclic Chemistry/Seoul
Lecture : Carbohydrate Nanotubes
431. **18–22 August 1997:** 36th IUPAC Congress on Frontiers in Chemistry:
 New Perspectives for the 2000s/Geneva
Keynote Lecture : The Nature of the Mechanical Bond
432. **1 October 1997:** Raychem Corporation/Menlo Park/California: Research Seminar
Lecture: The New Chemistry
433. **8 October 1997:** Merck/Rahway/New Jersey: One-Day Symposium on Molecular
 Recognition
Lecture: Controlling Self-Assembly in Chemical Systems
434. **31 Oct–4 Nov 1997:** Merck/Rahway/New Jersey: One-Day Symposium on Molecular
 Recognition
Invited Lecture: The Nature of the Mechanical Bond
435. **18 December 1997:** Rohm and Hass/Pennsylvania: Research Seminar
Lecture: Carbohydrate Cycles and Clusters
436. **6 February 1998:** University of Nevada: Departmental Seminar
Lecture: The Nature of the Mechanical Bond
437. **10–11 February 1998:** Dupont/Wilmington: 1998 Discovery Chemistry Seminar Series
Lecture: The Nature of the Mechanical Bond
438. **18 February 1998:** University of California, Irvine: Departmental Seminar
Lecture: The Nature of the Mechanical Bond
439. **29 Mar–1 Apr 1998:** University of Birmingham: RSC Carbohydrate Group Spring Meeting
Posters only: Several
440. **13–14 April 1998:** University of Miami: Review of Graduate Program
441. **16 April 1998:** University of Utah: Departmental Seminar
Lecture: Synthetic Supramolecular Chemistry
442. **30 April 1998:** University of Southern California: Symposium in Honor of Jim Dye
Lecture: The Nature of the Mechanical Bond
443. **4–10 May 1998:** Sitges (Barcelona/Spain: NATO ARW on Applications of NMR to the
 Study of Structure and Dynamics of Supramolecular Complexes
Invited Lecture: Probing Self-Assembly Processes by NMR Spectroscopy
444. **30 May–3 June 1998:** Whistler BC: Canadian Society for Chemistry Conference.
 Symposium on Theoretically Interesting Molecules
Invited Lecture: Rotacatenanes and Elusive Molecular Necklaces
445. **7–12 June 1998:** Hawaii: XXIII International Symposium on Macrocyclic Chemistry
Invited Lecture: Molecular Machines

446. **16 October 1998:** Brigham Young University: Castle Lectureship
Lecture: The Nature of the Mechanical Bond
447. **2 November 1998:** University of Alberta: 1998 Bio-Mega Lectureship
Lecture: The Nature of the Mechanical Bond
448. **11 November 1998:** University of California at Riverside: Seminar
Lecture: The Nature of the Mechanical Bond
Evening Presentation : Dynamic Interlocked Molecules
449. **23 November 1998:** University of San Diego: Seminar
Lecture: The Nature of the Mechanical Bond
450. **21–26 January 1999:** Anaheim/California AAAS Symposium: Frontiers
in the Physical Sciences
Lecture: Molecular Machines
451. **12 February 1999:** The Scripps Research Institute: Tenth Annual
Symposium on Frontiers in Chemistry
Lecture: Molecular Motors and Machines
452. **26 February 1999:** Northwestern University: Departmental Colloquium
Lecture: Chemistry Between Molecules and Supermolecules
453. **21–25 March 1999:** ACS Symposium on “Synthesis of Novel Polymeric
Materials/Anaheim
Lecture: Interlocked Molecules
454. **17–19 May:** University of Western Ontario/Fred Pattison Senior Lectureship
Lecture 1: The Nature of the Mechanical Bond
Lecture 2: Chemistry Between Molecules and Supermolecules
Lecture 3: Molecular Motors and Machines
455. **13–16 July 1999:** Trinity College Dublin: Fourth International
Conference on Materials Chemistry
Closing Plenary Lecture: Molecular Machines
456. **22–25 August 1999:** New Orleans: ACS Award Address
Lecture: Molecular-Level Devices and Machines
457. **11–14 October 1999:** Basel/Switzerland: Swiss Chemical Society
Session on Supramolecular Chemistry and Molecular Recognition
Lecture: The Nature of the Mechanical Bond
458. **21–24 October 1999:** Carbondale/Illinois: Second Annual Southern
Illinois Materials Chemistry Conference
Lecture: Molecular-Level Devices and Machines
459. **15–17 November 1999:** Washington DC: NSF Career Panel Meeting
460. **23 November 1999:** Bell Labs. Lucent Technologies/Murray Hill NJ
Physics and Materials Sciences Colloquium
Lecture: Molecular-Level Devices and Machines
461. **3 December 1999:** Arizona State University: Departmental Seminar
Lecture: The Nature of the Mechanical Bond
462. **22–24 March 2000:** University of Wisconsin at Madison: 1999-2000
Samuel M McElvain lectureship in Organic Chemistry
Lecture: Toward Artificial Molecular Machines
463. **18–19 May 2000:** Washington DC: NSF Meeting
Presentation: State-of-the-Art and Challenges in Constructing Molecular Machines
464. **29 May–1 June 2000:** Calgary: Canadian Society of Chemistry:
Challenges for the New Century
Keynote Address: The Age of Chemical Nanosystems
465. **18–23 June 2000:** New Hampshire: Bioorganic Gordon Conference
Lecture: Concept Transfer from Biology via Chemistry to Electronic Devices
466. **2–7 July 2000:** St Andrews/Scotland: Macrocycles 2000
Plenary Lecture: Toward Artificial Molecular Machines
467. **30 July–4 Aug 2000:** Fukuoka/Japan: International Symposium on Supramolecular

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- Opening Lecture: Molecular-Level Devices and Machines*
468. **9–11 August 2000:** South Lake Tahoe: DARPA and ONR Molelectronics Annual PI's Meeting
Presentation and Poster
469. **15 August 2000:** Livermore: LLNL
Lecture: Toward Artificial Molecular Machines
470. **20–24 August 2000:** Washington DC: ACS National Meeting – Symposium on Functional Nanostructures
Plenary Lecture: Interlocked Nanosystems
471. **9–11 September 2000:** Bologna/Italy: Dalton Discussion Group Meeting on Inorganic Crystal Engineering
Keynote Lecture: A Molecular Meccano Kit
472. **23–28 September 2000:** Ischia/Italy: IASOC-2000: New Challenges for Organic Synthesis in the 21st Century
Lecture: Template-Directed Organic Synthesis
473. **29 September 2000:** State University of Milano-Bicocca/Italy
Department of Materials Science
Lecture: Molecular-Level Devices and Machines
474. **12–15 October 2000:** Timberline Lodge/Mount Hood/Portland/Oregon:
Eighth Annual NSF-Sponsored Materials Chemistry Workshop
Lecture: Toward Artificial Molecular Machines
475. **17 October 2000:** University of Washington Seattle: Nanotechnology Seminar Series
Lecture: Molecular-Level Devices and Machines
476. **26–29 October 2000:** Vienna/Austria: Third COST Workshop on Supramolecular Chemistry
Lecture: Toward Artificial Molecular Machines
477. **30 October 2000:** Argonne National Laboratory: Chemistry and Materials Science Division
Lecture: Toward Artificial Molecular Machines
478. **6 November 2000:** Columbia University/New York: One-Day Symposium
Lecture: Concept Transfer from the Life Sciences into Materials Science
479. **7–9 November 2000:** Juniata College/Huntington PA: Distinguished Visiting Scientists Series
Lecture 1: A Molecular Meccano Kit – alias a Tinkertoy Construction Set
Lecture 2: Another Molecular Meccano Kit – alias another Tinkertoy Construction Set
Lecture 3: Artificial Molecular Machines
Lecture 4: Can a Molecular Computer be Built?
480. **13–15 November 2000:** Texas Christian University: Department of Chemistry/Green Lectureship
Lecture 1: A Molecular Meccano Kit – alias a Tinkertoy Construction Set
Lecture 2: Can a Molecular Computer be Built?
481. **20–21 November 2000:** Simon Fraser University: Department of Chemistry/Merck Frosst Lecturer
General Lecture: Toward Artificial Molecular Machines
Specialized Lecture: Glycodendrimers as Multivalent Probes
482. **27 November 2000:** Vanderbilt University: Department of Chemistry/Mitchum Warren Lectureship
Lecture: Toward Artificial Molecular Machines
483. **14–19 December 2000:** Honolulu/Hawaii: PACIFICHEM 2000
Plenary Lecture: A Molecular Meccano Kit
Invited Lecture: Toward Supramolecular Polymers with Interpenetrating Building Blocks

- Invited Lecture: Toward Artificial Molecular Machinery*
484. **25 January 2001:** University of California, Los Angeles/Herbert Newby McCoy Lecture
Lecture : A Tour of the Mechanical Bond - From the Quixotic via the Exotic to the Electronic
485. **6 February 2001:** Hewlett Packard/Palo Alto: Molelectronics I & II
Presentation: Molecular Switches
486. **18–23 February 2001:** Mauterndorf/Austria: Winterschool on Sensing and Manipulating the Nanoworld
Lecture 1: Artificial Molecular Machines
Lecture 2: Devices Based on Interlocked Molecules
487. **5–7 March 2001:** Bishop's Lodge in Santa Fe/New Mexico: DARPA Molelectronics II Program Kick-Off Meeting
Presentation: Molecular Switches
488. **20 March 2001:** University of Colorado at Boulder
Lecture: Molecular-Level Devices and Machines
489. **1–6 April 2001:** San Diego: ACS Spring 2001 National Meeting
PMSE Lecture: Molecular-Level Machines and Devices
IEC Lecture: Motor Molecules
CARB Lecture: Glycodendrimers: Tools for Studying Lectin-Carbohydrate Interactions
490. **18 April 2001** Habana/Cuba: Fourth International Chemical Congress
Lecture: Artificial Molecular Machines and Switches
491. **7 May 2001** University of Pennsylvania: Bayer Lecture
Lecture: Artificial Molecular Machines
492. **17 May 2001** Würzburg/Germany: Hünig's 80th Birthday
Lecture: A Tour of the Mechanical Bond – From the Quixotic via the Exotic to the Electronic
493. **13–14 July 2001** Hiroshima/Japan: Dreaming Chemistry for the New Millennium
Lecture: Interlocked Molecules Beyond Catenanes and Rotaxanes
494. **15–19 July 2001** Fukuoka/Japan: ISMC 26
Opening Plenary Lecture: From Motor-Molecules to Molecular Machines and Electronic Devices
495. **28 July–2 August 2001** Connecticut College/NH: Gordon Research Conference on “Chemistry of Supermolecules and Assemblies”
Invited Lecture: An Integrated Systems-Approach to Molecular Electronics
496. **20–25 August 2001** Il Ciocco/Tuscany/Italy: Assembly and Self-Assembly at the Interface Between Biology, Chemistry and Physics
Lecture: Self-Assembly: An Abstract Art Form Toward Supramolecular Polymers
497. **2–7 September 2001** Lisbon/Portugal: European Symposium on Carbohydrate Chemistry
Plenary Lecture: A New Approach to the Synthesis of Glycodendrimers and Glycopolymers
498. **28–30 September 2001** University of Pennsylvania/Philadelphia: Symposium on Life Sciences and Materials
Lecture: From Motor-Molecules to Molecular Machines and Electronic Devices
499. **1–2 October 2001** University of Pittsburgh and Carnegie-Mellon Institute: The Pittsburgh Symposium on Frontiers in Condensed Matter Science
Lecture: The Nature of the Mechanical Bond
Carnegie-Mellon Lecture: An Integrated Systems-Approach to Molecular Electronics
500. **10–12 October 2001** University of Münster/Germany: Frontiers in Chemistry
Lecture: From Motor-Molecules to Molecular Machines and Electronic Devices
501. **29 October 2001** Santa Barbara: Nobel Symposium at the ACS Western Division Meeting
Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics
502. **4–7 November 2001** Osaka/Japan: International Conference on Macromolecular Complexes
Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics
503. **14–15 November 2001** Université de Montréal/Canada: Barré Lectures
Lecture 1: The Nature of the Mechanical Bond

504. **Lecture 2: From Motor-Molecules to Molecular Electronic Devices**
19 November 2001 University of California/Santa Cruz: Seminar
505. **Lecture: From Motor-Molecules to Molecular Machines and Electronic Devices**
29 Nov–3 Dec 2001 Boston: MRS Symposium on "Organic Optoelectronic Materials, Processing and Devices"
506. **Lecture: Toward Molecular Electronic Devices**
4–7 December 2001 Frösundavik in Stockholm/Sweden: Nobel Jubilee Symposium in Chemistry - "Frontiers in Molecular Sciences"
507. **Lecture: The Nature of the Mechanical Bond**
29–30 January 2002 Jerusalem: 67th Annual Meeting of the Israel Chemical Society
508. **Plenary Lecture: The Nature of the Mechanical Bond**
20 February 2002 CALTECH: Organic Chemistry Seminar
509. **Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics**
23–26 February 2002 Taipei/Taiwan: ICCT 2002 International Chemical Conference
510. **Lecture: From Motor-Molecules to Molecular Electronic Devices**
4–5 March 2002 Valencia/Spain: International Symposium on Nanotechnology
511. **Lecture: From Motor-Molecules to Molecular Electronic Devices**
14–15 March 2002 University of Southern California/Los Angeles: Trends in Hydrocarbon Chemistry
512. **Lecture: From Motor-Molecules to Molecular Machines and Electronic Devices**
18 March 2002 University of Missouri-St Louis: Robert B Murray Lectureship
513. **Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics**
22 March 2002 UC Berkeley: Inorganic Seminar
514. **Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics**
28–30 March 2002 UCLA: Symposium – 50 Years of Cram's Rule: The Golden Age of Stereochemistry
515. **Lecture: "From Host-Guest Chemistry to Molecular Meccano"**
5 April 2002 University of Chicago: Closs Lecture Series
516. **Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics**
14–19 April 2002 Centro Stefano Franseiniat Monte Verità, Switzerland: Molecular Nanosystems - From Single Molecules to Supramolecular Assemblies
517. **Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics**
3 May 2002 New York University/New York: Seminar
518. **Lecture: From Motor-Molecules to Molecular Machines and Electronic Devices**
30 May–4 June 2002 Neu-Ulm/Germany: Fifth International Symposium on Functional π -Electron Systems
519. **Plenary Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics**
23–27 June 2002 Park City/Utah: XXVII International Symposium on Macrocyclic Chemistry
520. **Plenary Lecture: Molecular Meccano Kit**
14–18 July 2002 UC San Diego: Tenth International Conference on Polymers and Organic Chemistry 2002
521. **Lecture: Supramolecular Polymers**
7 August 2002 Nanomix/Oakland: Invited Lecture
522. **Lecture: From Molecular Recognition via Molelectronics to NanoElectroMechanicalSystems (NEMS)**
11–16 August 2002 Salve Regina/Newport RI: Gordon Research Conference on Electron Donor-Acceptor Interactions
523. **Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics**
17–22 August 2002 Boston/Massachusetts: ACS Fall Meeting Symposium on "Chemistry at a Supramolecular Level"
- Lecture 1: An Integrated Systems-Oriented Approach to Molecular Electronics**
 ACS Donald J Cram Memorial Symposium:

524. **Lecture 2: A Molecular Meccano Kit in the Making**
4 September 2002 Columbia University/NY: Seminar Program
Lecture: From Motor-Molecules to Molecular Machines and Electronic Devices
525. **22–24 September 2002** Cancun/Mexico: Mexican Chemical Society
Congress on "New and Exciting Results in the Chemical Sciences"
Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics
526. **26–28 September 2002** Vienna/Austria: Cost Action D19 Workshop on "Nanochemistry"
Invited Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics
527. **30 September 2002** Stockholm/Sweden: Department of Chemistry, KTH: Seminar
Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics
528. **1 October 2002** Ångstrom Laboratory/Uppsala University/Sweden: Seminar
Lecture: Building a Molecular Meccano Kit
529. **2–4 October 2002** University of Twente/Enschede/The Netherlands: MESA+
Symposium
Plenary Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics
530. **4 October 2002** University of Amsterdam/The Netherlands: Seminar
Lecture: From Motor-Molecules to Molecular Machines and Electronic Devices
531. **26 October 2002** UCLA: Seaborg Symposium
Lecture: Supramolecular Chemistry of Carbon Nanotubes
532. **8 November 2002** IBM/Almaden
Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics
533. **13–15 November 2002** Notre Dame University/Indiana: Nieuwland Lectures
Lecture 1: An Integrated Systems-Oriented Approach to Molecular Electronics
Lecture 2: Molecular Meccano
Lecture 3: Dynamic Chirality
534. **13 January 2003** Encino – Tarzana Regional Medical Center
Lecture: Meccano on the Nanoscale: A Blueprint for Making Some of the World's Tiniest Machines
535. **6 February 2003** NBIC Convergence 2003/UCLA
Keynote Address: Converging Physical and Human Dimensions
536. **26 March 2003** 225th ACS National Meeting/New Orleans: Interdisciplinary
Symposium on "Polymer Design Using Non-Covalent Methods"
Lecture: Toward Supramolecular Daisy-Chainlike Polymers
537. **3 April 2003** NSF – IGERT – MCTP Seminar/UCLA
Lecture: From NanoElectronics to NanoElectroMechanical Systems (NEMS)
538. **10–13 April 2003** Gothenburg/Sweden: CERC3 Young Chemists
Workshop 2003: "NanoScience – From Chemistry and Molecular
Microscopy to Design of Functional Nano-Structures"
Plenary Lecture: Meccano on the Nanoscale: A Blueprint for Making Some of the World's Tiniest Machines
539. **18 April 2003** Columbus/Ohio: Materials Science and Engineering
Department Colloquium Series
Seminar: Meccano on the Nanoscale: A Blueprint for Making Some of the World's Tiniest Machines
540. **18–21 May 2003** Groningen/The Netherlands: Royal Netherlands Academy of
Science International Meeting on "Nanoscience and Technology"
Invited Lecture: Meccano on the Nanoscale: A Blueprint for Making Some of the World's Tiniest Machines
541. **15–18 June 2003** Georgia Institute of Technology: 77th Colloid &
Surface Science Symposium
Plenary Lecture: Mechanically Interlocked Polymers
542. **6–11 July 2003** Cumberland Conference and Leisure Resort in
Lorne/Victoria/Australia: 19 Royal Australian Chemical Institute

Organic Conference (19 RACIOC)

- Plenary Lecture: Meccano on the Nanoscale: A Blueprint for Making Some of the World's Tiniest Machines*
543. **14 July 2003** ICCOSS XVI Meeting/Sydney/Australia
Invited Lecture: From Molecular Recognition via Molelectronics to NanoElectroMechanical Systems (NEMS)
544. **16 July 2003** Sydney University Chemical Society/Sydney/Australia: 2003 Liversidge Lecture
Lecture: Synthetic Organic Chemistry Responding to the Opportunities Provided by Nanotechnology
545. **21–24 July 2003** Cambridge/UK: RSC Synthesis Meeting: Synthetic Organic Chemistry
Lecture: Synthetic Organic Chemistry Responding to the Opportunities Provided by Nanotechnology
546. **27–29 July 2003** McLean/Virginia: DARPA Molelectronics Review Meeting
Presentation: The Latest Designs and Demonstrations of Bistable Switches
547. **29 July–1 August 2003** Sheffield/UK: RSC Materials Chemistry 6
Plenary Lecture: Meccano on the Nanoscale: A Blueprint for Making Some of the World's Tiniest Machines
548. **7 August 2003** IBM Almaden Research Center: CPIMA/CNSI Technical Form on "Nanostructures and Nanoscience"
Keynote Presentation: Self-Assembly of a NanoSystems Institute from the Bottom-Up
549. **10–15 August 2003** Ottawa/Canada: 39th IUPAC Congress and 86th Conference of the Canadian Society for Chemistry: Symposium on "Supramolecular Chemistry and Self-Assembly"
Keynote Lecture: Toward Supramolecular Daisy Chainlike Polymers
550. **19–20 August 2003** San Francisco: BMM 2003 PI Conference
Presentation: Linear Motor-Molecule Based Biomimetic Muscles
551. **26 August 2003** Mission Inn/Riverside: DARPA/DMEA – CNID PI Review
Presentation: The Mechanical Bond in Molecular Electronics
552. **6–11 September 2003** 226th ACS National Meeting/New York: One-Day Symposium on "Supramolecular Chemistry and Molecular Recognition" (Bradley Smith and Vince Rotello)
Invited Lecture: Interlocked Molecules Beyond Catenanes and Rotaxanes
Polymer Chemistry Division Symposium on "Organic and Polymeric Materials for Plastic and Molecular Electronics" (Zhenan Bao, Cherie Kagan & Bert de Boer)
Invited Lecture: Molecular Electronics Based on Mechanically Interlocked Molecules
Two-Day Symposium on "Molecular Recognition using Polymeric Materials" (S Thayumanavan and Vince Rotello)
Invited Lecture: Supramolecular Chemistry of Carbon Nanotubes
553. **19–20 September 2003** Berlin/Germany: International Dendrimer Symposium – IDS-3
Invited Lecture: Multivalent Interactions – Transferring a Natural Phenomenon into a Unnatural Setting
554. **30 September 2003** US Department of Commerce/Washington DC: Workshop on Regional, State, and Local Initiatives in Nanotechnology
Presentation: California NanoSystems Institute
555. **3 October 2003** Georgia Tech/Atlanta GA: Harold Nations Symposium on Frontiers in Polymeric Architectures
Plenary Lecture: Toward Daisy Chain-Like Polymers
556. **9–10 October 2003** San Francisco: 11th Foresight Conference on Molecular Nanotechnology
Keynote Lecture: Meccano on the Nanoscale: A Blueprint for Making Some of the World's

Tiniest Machines

557. **Tutorial Presentation: An Integrated Systems-Oriented Approach to Molecular Electronics**
17 October 2003 Hilton Hotel/Long Beach: 38th Western Regional Meeting of the American Chemical Society: Symposium on “Nanomaterials and Applications”
558. **Talk: Single-Walled Carbon Nanotube-Based Molecular Switch Tunnel Junctions**
22–24 October 2003 Saskatoon/Canada: Spinks Lectures at the University of Saskatchewan
559. **General Lecture: The Nature of the Mechanical Bond**
Specialist Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics
26–28 October 2003 Bonn/Germany: Symposium on From Design of Chemical Templates to Reaction Control
560. **Plenary Lecture: Template-Directed Synthesis of Interlocked Molecular Compounds**
7–8 November 2003 Faculty Club UCLA: Frontiers of Science
561. **Presentation: The CNSI – Where the Top-Down Meets the Bottom-Up**
19–21 November 2003 Victoria/Canada: Lansdowne Lecture Series at the University of Victoria
562. **Public Lectures: The Self-Assembly of a NanoSystems Institute from the Bottom-Up**
Departmental Lecture: An Integrated Systems-Oriented Approach to Molecular Electronics
1–5 December 2003 Boston/Mass: Fall 2003 Materials Research Society: Symposium on “Nanostructured Organic Materials”
563. **Plenary Lecture: From NanoElectronics to NanoElectroMechanical Systems (NEMS)**
12 February 2004 Seattle/Washington: AAAS Annual Meeting – 2004 Nanotechnology Seminar: Nanoscience and Nanoengineering
564. **Lecture: “From Molecular Recognition to an Integrated Systems-Oriented Approach to Molecular Electronics”**
19–20 February 2004 POSTECH/Pohang/Korea: International Symposium in Bionanotechnology
565. **Lecture: “An Integrated Systems-Oriented Approach to Molecular Electronics”**
23 February 2004 Faculty Club/UCLA: NEC Delegation from Japan
566. **Presentation: “An Integrated Systems-Oriented Approach to Molecular Electronics”**
4 March 2004 Four Seasons Biltmore Hotel/Santa Barbara: Center for NanoScale Innovation for Defence Review Meeting
567. **Lecture: “Molelectronics”**
8 March 2004 UCLA: MARCO Focus Center – FENA Kick-Off Meeting
568. **Presentation: “Novel Materials from Atomic and Molecular Levels”**
9 March 2004 Hotel Del Coronado/San Diego: Second Annual Accelrys World Meeting
569. **Nanotechnology Lecture: “An Integrated Systems-Oriented Approach to Molecular Electronics”**
27 March – 1 April 2004 227th ACS National Meeting/Anaheim: Symposium in Honor of Virgil Percec on Monday 29 March: “**Harnessing Multivalency in Unnatural Systems**”
Symposium on “Polymers in Micro- and Nano-Electronics” on Wednesday 31 March: “**Molecular Meccano and Nanoelectronics**”
570. **5 April 2004** Bristol/UK: Bristol Synthesis Meeting
571. **Invited Lecture: “Template-Directed Synthesis of Interlocked Molecular Compounds”**
6 April 2004 Exeter/UK: Departmental Seminar
572. **Lecture: “An Integrated Systems-Oriented Approach to Molecular Electronics”**
15 April 2004 Department of Chemistry and Biochemistry/UCLA: Materials Creation Training Program
573. **Lecture: “Molecular Meccano and Molecular Electronics”**
21–23 April 2004 Snowbird/Utah: Foundations of Nanoscience: Self-

- Assembled Architectures and Devices
574. **Lecture: "Molecular Meccano and Molecular Electronics"**
26 April 2004 Durham/New Hampshire: Frontiers Seminar in the
College of Engineering and Physical Sciences
(CEPS) at the University of New Hampshire
- Broad Interest Lecture: "The Nature of the Mechanical Bond"*
Special Interest Lecture: "An Integrated Systems-Oriented Approach to Molecular Electronics"
575. **28–29 April 2004** Hebrew University of Jerusalem Israel: 2004
Musher Memorial Lecture
- Memorial Lecture: "The Nature of the Mechanical Bond"*
Seminar Lecture: "An Integrated Systems-Oriented Approach to Molecular Electronics"
576. **6–7 May 2004** University of Pennsylvania/Philadelphia: Wyeth Research Lectureship
*Seminar (at Wyeth): "Template-Directed Synthesis of Mechanically Interlocked Molecular
Compounds"*
Lecture (at Penn): "The Nature of the Mechanical Bond"
577. **23–26 May 2004** Rockville/Washington DC: DOE Contractors' Meeting
Overview Lecture: "Nano Meccano"
578. **8–9 June 2004** Venice/Italy: Master Classes in Nanotechnology on
Molecular Recognition and Self-Assembly
- Lecture 1: "Dynamic Chemistry"*
Lecture 2: "Anion Templatation in the Solid State"
Lecture 3: "Donor-Acceptor Recognition"
Lecture 4: "First Generation Bistable [2]Rotaxanes"
Lecture 5: "Second Generation Bistable [2]Rotaxanes"
Lecture 6: "Metastability Across Environments"
Lecture 7: "Multivalency"
Lecture 8: "Molecular Machines"
579. **10 June 2004** Padua/Italy: Public Lecture at the University of Padua
*Lecture: "Nano Meccano: A Blueprint for Making Some of the World's
Tiniest Machines"*
580. **11 June 2004** Milan/Italy: Symposium on Nanotechnology and DNA
Computing: Reaching the Ultimate Control of
Structure and Computation on the Nanoscale
- Lecture: "Meccano on the NanoScale: A Blueprint for Making Some of the
World's Tiniest Machines"*
581. **20–21 June 2004** Salve Regina University/Newport Rhode Island:
Gordon Research Conference on Stereochemistry
- Invited Lecture: "Dynamic Chirality and Topology"*
582. **5–9 July 2004** Singapore: First Nanoengineering and Nanoscience Congress
Keynote Lecture: "An Integrated Systems-Oriented Approach to Nanoelectronics"
Singapore: Singapore National Institute of Chemists
- Public Lecture: "The Nature of the Mechanical Bond"*
583. **25–27 July 2004** Mount Holyoke College/South Hadley MA: Gordon
Research Conference on Electronic Processes in
Organic Materials (EPOM'04)
- Invited Lecture: "Molecular Meccano and Molecular Electronics"*
584. **27–30 July 2004** Notre Dame University/Indiana: International
Symposium on Supramolecular Chemistry – ISSC-XIII
- Plenary Lecture: "The Nature of the Mechanical Bond"*
585. **1–6 August 2004** Nagoya/Japan: 15th International Congress of Organic
Synthesis – ICOS15
- Gold Medal Lecture: "The Nature of the Mechanical Bond"*
586. **6 August 2004** Yokkaichi/Japan: JSR Corporation
Lecture: "Molecular Meccano and Molecular Electronics"

587. **19 August 2004** MURI Meeting/Harvard University
Lecture: "Recognition Elements for Self-Assembly"
588. **21–26 August 2004** Fall 2004 ACS National Meeting/Philadelphia
 Symposium in Honor of Daryle Busch entitled "From the Template Effect to Spontaneous Intermolecular Organization" on **Tuesday 24 August**:
Lecture "Template-Directed Synthesis of Mechanically Interlocked Molecular Compounds"
 International Symposium entitled "Functional Polymers and Dendrimers – From Synthesis to Applications" on **Monday 23 August**
Lecture: "Towards Daisy Chain Polymers by Dynamic Chemistry"
 Organic Division Session on "Materials, Devices, and Switches on **Tuesday 24 August**
Lecture: "Controlling the Helical Chirality of Donor-Acceptor [2]Catenanes"
589. **25 August 2004** DuPont CR&D/Wilmington/Delaware
Lecture: "Nano Meccano – Putting Molecular Machines to Work in More Ways than One"
590. **8–9 September 2004** Cambridge/UK: Nanoforum Summer School on
 "Molecular Self-Assembly" at the Nanoscience Centre in Cambridge
Lecture 1: "The Nature of the Mechanical Bond"
Lecture 2: "An Integrated Systems-Oriented Approach to Molecular Electronics"
Lecture 3: "Molecular Meccano in Action"
591. **11–16 September 2004** Tomar/Portugal: European Science Foundation
 Conference on "From Clever Molecules to Smart Materials"
Invited Lecture: "The Role of Physical Environment on Molecular Electrochemical Switching"
592. **4 October 2004** Portland/Oregon: 31st Annual Meeting of the
 Federation of Analytical Chemistry and Spectroscopy Societies (FACSS): Second Symposium on Carbon Nanotube Separations
Invited Lecture: "Single-Walled Carbon Nanotubes Under the Influence of Dynamic Coordination and Supramolecular Chemistry"
593. **15 October 2004** Milwaukee/Wisconsin: Nanoscience Symposium in Honor of the
 Late Dean Keulks at the University of Wisconsin-Milwaukee
Presentation: "Nano Mecanno"
594. **19–20 October 2004** University of Jyväskylä/Finland: VIP Invitation to the
 Opening of the Jyväskylä NanoScience Center
Lecture: "Nano Meccano in Action"
595. **22–23 October 2004** Stanford/California: 19th Annual WS Johnson Symposium in Organic
 Chemistry
Lecture: "The Nature of the Mechanical Bond"
596. **1 November 2004** UCLA/Grand Horizon: CNID Review
Lecture "NanoMechanics in Action"
597. **9 November 2004** CALTECH: Molelectronics Review
Presentation: "Molecular Switching in Mechanically Interlocked Molecules"
598. **10–14 November 2004** Research Triangle Park/NC: Symposium in Honor of Ernest Eliel
Invited Lecture: "Dynamic Topology"
599. **16 November 2004** Corning Science & Technology: Self-Assembly Workshop
Lecture: "An Integrated Systems-Oriented Approach to Molecular Electronics"
600. **25 November 2004** Universität Ulm/Germany: GDCh-Kolloquium
Lecture: "The Nature of the Mechanical Bond"
601. **26–27 November 2004** Universität Ulm/Germany: SFB Workshop on
 "Towards Molecular Electronics"
Lecture: "An Integrated Systems-Oriented Approach to Molecular Electronics"
602. **7 December 2004** Meiji Memorial Hall/Tokyo/Japan
Presentation: "CNSI: Self-Assembly of an Institute from the Bottom-Up"

603. **7–10 December 2004** Tsukuba/Japan: 12th International Symposium on Advanced Materials (12th ISAM)
Lecture: “Nano Meccano”
604. **12 January 2005** Kellogg School of Science and Technology/The Scripps Research Institute/La Jolla/CA: Distinguished Lecture Series
Lecture: “Nano Meccano in Action”
605. **18 January 2005** UCLA: FENA Annual Review
Presentation: “Novel Materials from Atomic and Molecular Levels”
606. **28–29 January 2005** CNSI Business Advisory Board Meeting
University of California, Santa Barbara
Presentation: “RGB in One Molecule”
607. **15–16 February 2005** David International Continental Hotel/Tel Aviv: Israel Chemical Society Meeting (ICS 2005)
Plenary Lecture: “An Integrated Systems-Oriented Approach to Molecular Electronics”
608. **23–25 February 2005** Sheraton Keauhou Bay Resort & Spa/Kona/Hawaii: New Frontiers in NanoScience Sponsored by the CNSI
Lecture: “An Integrated Systems-Oriented Approach to Molecular Electronics”
609. **16 March 2005** Tsukuba/Japan: 9th NIMS Lecture
Lecture: “Nanoelectronics and the California NanoSystems Institute”
610. **16–17 March 2005** AIST/Tsukuba/Japan: International Symposium on Molecular Smart Materials
Lecture: “Nano Meccano in Action”
611. **21 March 2005** Birmingham University/UK: Collaborative Research Network in Nanotechnology
Lecture: “Nano Toys and Nano Art: How Fun and Beauty Inspire Creativity”
612. **23 March 2005** Nottingham University/UK: RSC Materials Chemistry Form – Chemical Nanoscience and Nanotechnology
Lecture: “An Integrated Systems-Oriented Approach to Molecular Electronics”
613. **25 March 2005** QSR/HP Labs/Palo Alto: Nanotechnology Symposium
Lecture: “NanoMeccano – Putting Artificial Machines to Work”
614. **14 April 2005** BASF-AG/Ludwigshagen/Germany Visit
Lecture: “An Integrated Systems-Oriented Approach to Molecular Electronics”
615. **15 April 2005** ISIS/Strasbourg/France: Chemistry – A European Conference – Stimulating Concepts in Chemistry
Lecture: “A Decade of Matching Chemistry with Chemistry”
616. **16 April 2005** ULP/ Strasbourg/France: Informal Mini-Symposium with the Sauvage Group
Lecture: “Borromeates and Borromeands”
617. **21 April 2005** UCLA: Materials Creation Training Program
Seminar: “Molecular Meccano and Molecular Electronics”
618. **22 April 2005** Materials Science Institute/University of Oregon/Eugene/Oregon: Seminar
Lecture: “An Integrated Systems-Oriented Approach to Molecular Electronics”
619. **28 April 2005** American Philosophical Society/Benjamin Franklin Hall/Philadelphia: Annual General Meeting
Lecture: “Nano Toys and Nano Art: How Fun and Beauty Inspire Creativity”
620. **5 May 2005** Fudan University/ Shanghai/China: Seminar
Lecture: “Nano Meccano in Action”
621. **6 May 2005** Tongji University/Shanghai/China: Seminar
Lecture: “Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics”
622. **7 May 2005** East China University of Science and Technology/Shanghai/China: Seminar

623. *Lecture: "Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics"*
8 May 2005 Shanghai Jiao Tong University/China: Seminar
624. *Lecture: "An Integrated Systems-Oriented Approach to Molecular Electronics"*
10 May 2005 Institute of Chemistry/Chinese Academy of Sciences/Beijing/China: Seminar
625. *Lecture: "Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics"*
11 May 2005 Nankai University/Tianjin/China: The 3rd Asian Cyclodextrin Conference (ACC 2005)
626. *Invited Lecture: "Ringing and Stringing Cyclodextrins"*
13 May 2005 College of Chemistry/Peking University/Beijing/China: Seminar
627. *Lecture: "Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics"*
23 May 2005 Hebrew University/Jerusalem/Israel: Seminar
628. *Lecture: "Borromeanes and Borromeanoids"*
24 May 2005 Department of Chemistry/Technion/Haifa/Israel: One-Day Symposium
 in Honor of the 2005 Chemistry Wolf Prize Laureate, Richard N Zare
629. *Invited Lecture: "Nano Meccano in Action"*
25 May 2005 Weizmann Institute/Rehovot/Israel: Seminar
630. *Lecture: "Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics"*
26 May 2005 Department of Chemistry/Tel Aviv University/Israel: Seminar
631. *Lecture: "Borromeanes and Borromeanoids"*
2 June 2005 Materials Science Centre/University of Groningen/The Netherlands: Colloquium
632. *Lecture: "Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics"*
3 June 2005 Nano-Science Center/University of Copenhagen/Denmark: Nanoscience Seminar
633. *Lecture: "Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics"*
13–17 June 2005 Palazzo Feltrinelli/Gargnano/Lake Garda/Italy: Three lectures on "The Mechanical Bond" at the XXX Attilio Corbella Summer School in Organic Synthesis, Organic Chemistry Division, Italian Chemical Society
634. *Lecture 1: "Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics"*
Lecture 2: "Nano Meccano: The Magnificent Young Chemists and their Working Molecular Machines"
Lecture 3: "Nano Toys and Nano Art: How Fun and Beauty Inspire Creativity"
20 June 2005 Tilton/NH: Gordon Research Conference on Carbohydrates: Glyconanotechnology
635. *Invited Lecture: "Cooperativity and Multivalency"*
15 July 2005 University of Birmingham/UK: Conferment of Honorary Degree of Doctor of Science
636. *Acceptance Speech: "Changing Places"*
Question & Answer: "Academic Life on Opposite Sides of the Pond"
25 July 2005 UCLA: Syllabus 2005 Conference Day at UCLA
637. *Plenary Lecture: "Nano Toys and Nano Art: How Fun and Beauty Inspire Creativity"*
28 July 2005 Clemson University/SC: Summer Undergraduate Research Program
638. *Presentation: "Nano Art and Nano Toys: How Fun and Beauty Inspire Creativity"*
13–17 July 2005 Beijing/China: 40th IUPAC Congress: Innovation in Chemistry

- Plenary Lecture: "Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics"*
639. **18-19 August 2005** Park City UT: Mole Apps PI Review
Presentation: "Recent Advances in Molecular Electronics"
640. **27-29 August 2005** Washington DC: 230th ACS Meeting: Division of Polymer Chemistry: Molecular Recognition Using Polymers
Invited Lecture: "Template-Directed Synthesis of Mechanically Interlocked Dendrimers"
641. **1-2 September 2005** Arlington VA: MURI Meeting
Presentation: "Templated Self-Assembled Materials"
642. **7-9 September 2005** Salzburg/Austria: Second World Congress on Synthetic Receptors
643. **15-16 September 2005** Madrid/Spain: Universidad Autonoma de Madrid
Seminar: "Nano Art and Nano Toys: How Fun and Beauty Inspire Creativity"
644. **17-19 September 2005** Lugo/Galicia/Spain: XXX Biannual Meeting of the Spanish Royal Society of Chemistry
Plenary Lecture: "Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics"
645. **20-23 September 2005** Centro Stefano Franscini/Monte Verità/Ascona: From Molecular Switches to Molecular Motors
Lecture: "Nano Meccano"
646. **6-7 October 2005** Pittsburgh PA: The University of Pittsburgh Science 2005 Event
Plenary Lecture: "Nano Meccano: An Integrated Systems-Oriented Approach to Molecular Electronics"
647. **16-19 October 2005** Obernai/France: EURESCO Conference on "Supramolecular Chemistry: Molecular Architectures and Systems"
Plenary Lecture: "Nano Meccano"
648. **21 October 2005** Aarhus/Denmark: iNANO Seminar Series
Lecture: "An Integrated Systems-Oriented Approach to Molecular Electronics"
649. **24-25 October 2005** Charlotte NC: Symposium on "Nanoscale Science & Engineering: Convergence of the Top-Down and Bottom-Up Approaches" at the University of North Carolina & Charlotte Research Institute
Invited Keynote Lecture: "An Integrated Systems-Oriented Approach to Molecular Electronics"
650. **30 Oct-4 Nov 2005** Edinburgh/Scotland: Carnegie Trust Centenary Professorship for 2005
Program: Departmental Seminar: "An Integrated Systems-Oriented Approach to Molecular Electronics"
Public Chair Lecture: "Nano Art and Nano Toys. How Beauty and Fun Inspire Creativity"
651. **5-6 November 2005** Northwestern University: International Institute for Nanotechnology Symposium
Lecture: "An Integrated Systems-Oriented Approach to Molecular Electronics"
652. **8 November 2005** IPAM (FENA/UCLA): Self-Assembly of Nanoscale Structures
Lecture: "Nano Meccano. An Integrated Systems-Oriented Approach to Molecular Electronics"
653. **11 November 2005** UCSB/Santa Barbara: November 2005 Biannual Canadian Institute of Advanced Research (CIAR) "Nanoelectronics" Meeting
Friday: Molecules as Circuit Elements
Presentation: "Molecular Electronics"
654. **16-18 November 2005** Twin Cities of Minneapolis & St Pauls: 2005-2006 Gassman Lecturer at University of Minnesota
Lecture 1: "Nano Art and Nano Toys. How Beauty and Fun Inspire Creativity"
Lecture 2: "Whither Molecular Electronics"

655. **21 November 2005** **ETH Zurich/Switzerland:** First Novartis Lecture
Lecture: "Borromeates and Borromeands"
656. **22 November 2005** Zurich/Switzerland: Organic Colloquium at the University of Zurich
Lecture: "Whither Molecular Electronics"
657. **27 Nov–3 Dec 2005** Edinburgh/Scotland: Carnegie Trust Centenary Professorship for 2005
Program: Half-Day Symposium: "The Nature of the Mechanical Bond"
St Andrews/Scotland
Lecture: "Nano Meccano"
658. **1 December 2005** Santa Barbara: DMEA CNID PI Review
Presentation: "Molecular Electronics"
659. **5–6 December 2005** Tsukuba/Japan: International Symposium on Molecular Scale Electronics at AIST
Invited Lecture: "Whither Molecular Electronics"
660. **15–20 December 2005** Honolulu/Hawaii: PACIFICHEM 2005
1. Materials Chemistry and Nanotechnology: Session on "Supramolecular Materials, Thin Films and Devices"
Lecture: "A Multicomponent Redox-Driven Molecular Shuttle"
2. Materials Chemistry and Nanotechnology: Session on "Design of Nanomaterials and Devices"
Lecture: "Ground-State Equilibrium Thermodynamics and Switching Kinetics of Bistable Catenanes and Rotaxanes"
3. Molecular Materials and Nanotechnology: Session on "Molecular Switching"
Lecture: "Nano Meccano"
661. **12 January 2006** Covell Commons/UCLA: Canada-California Strategic Innovative Partnership Summit
Presentation: "Blue Ribbon Task Force on Nanotechnology"
662. **17–18 January 2006** Luxe Hotel/Los Angeles: FENA Year 2 Annual Review
Presentation: "Atomic and Molecular Functional Materials"
663. **16 February 2006** Oklahoma University: Karchar Lecture
Lecture: "Whither Molecular Electronics"
664. **2 March 2006** MCTP/UCLA: Seminar
Lecture: "Molecular Meccano and Molecular Electronics"
665. **9 March 2006** University of Basel/Switzerland: Basel Chemical Society Meeting
Lecture: "Whither Molecular Electronics"
666. **10 March 2006** University of Fribourg/Switzerland: Swiss Chemical Society (Spring Meeting on "Functional Molecular Materials")
Lecture: "Nano Meccano"
667. **3–4 April 2006** Ohio State University/Columbus OH: 2006 Mack Memorial Award
Seminar: "Whither Molecular Electronics"
668. **14 April 2006** Ames/Iowa: Iowa State University – Seminar in Department of Chemistry
Seminar: "Whither Molecular Electronics"
669. **4 May 2006** UCLA: Science Faculty Research Colloquium
Lecture: "Science Engineered by Art"
670. **10 May 2006** Kodak/Rochester: Symposium in Honor of Samir Farid
Lecture: "Whither Molecular Electronics"
671. **15–20 May 2006** Osaka/Japan: Seventh International Symposium on Functional π Electron Systems
Plenary Lecture: "Molecular Electronics"
672. **30 May 2006** UCLA: NanoSystems Seminar Series (with D Philp)
Lecture: "Engineering Big Time. There's Plenty of Room at the Top"
673. **31 May 2006** Halifax/Nova Scotia: CSC Conference in Halifax – Symposium on

- “Macromolecular and Supramolecular Chemistry”
674. *Lecture: “Nano Toys and Nano Art. How Fun and Beauty Inspire Chemical Creativity”*
1–2 June 2006 Glasgow/Scotland: Carnegie Trust Centenary Professorship
Lecture: “Links and Knots”
675. **5–6 June 2006** London/UK: Royal Society Discussion Meeting on
“Supramolecular Nanotechnology for Organic Electronics”
Lecture: “Whither Molecular Electronics”
676. **26 June 2006** Santa Monica CA: CNID PI Meeting
Lecture: “Whither Molecular Electronics”
677. **27–28 June 2006** Sparks/Nevada: 2006 Northwest Regional ACS Meeting
Prominent Lecture: “Whither Molecular Electronics”
Fuson Award Lecture: “Links and Knots”
678. **8 July 2006** University of Karlsruhe: Criegee Lecture 2006
Lecture: “Links and Knots”
679. **12 July 2006** UPL/Strasbourg/France: Invited Professorship at UPL
Lecture: “Whither Molecular Electronics”
680. **9 July 2006** Karlsruhe: Center for Functional Nanostructures
Lecture: “Organic Molecular Electronics”
681. **30 July–4 August 2006** Basel/Switzerland: International Conference on Nanoscience
and Nanotechnology
Invited *Lecture: “Whither Molecular Electronics”*
682. **19–14 September 2006** San Francisco: Fall 2006 ACS Meeting
(1) Symposium on “Organic Approaches to Nanotechnology”
Invited Lecture: “Molecular Architectonics and Electronics”
(2) Award Symposium in Honor of Jiaying Huang
Invited Lecture: “Some Great Graduate Students: Achievements Then and Since”
683. **29 September 2006** Washington DC: Visit to NSF Chemistry Division
Presentation: “Chemistry for all Seasons”
684. **27 October 2006** Caltech: MoleApps Meeting
Presentation: “HP & UCLA CALTECH Science”
685. **31 October 2006** San Jose Marriott San Jose CA: SEMI Nano U 2006
Presentation Invitation: “Overview of the California NanoSystems Institute”
686. **6 November 2006** UCLA: Monday Luncheon Seminar
Seminar: “Knots Galore”
687. **16–17 November 2006** UMass-Amherst: Department of Chemistry
Lecture: “Whither Molecular Electronics”
688. **27 November 2006** Amsterdam/The Netherlands: Meeting of the Science Division
of the Royal Netherlands Academy of Arts and Sciences
689. **30 Nov – 2 Dec 2006** Enschede/The Netherlands: Honorary Doctorate from the
University of Twente
Seminar: “The Art and Practice of Molecular Electronic Device Design and Construction”
690. **4 December 2006** Bologna/Italy: From Coordination Molecules to Supramolecules
and Celebrating the First 70 Years of Vincenzo Balzani
Seminar: “Sixty-Four is What?”
691. **12 December 2006** Riverside CA: CNID PI Meeting
Lecture: “Using Bistable [2]Rotaxanes in Memory Devices”
692. **16–17 January 2007** Los Angeles: Third Annual FENA Review Meeting
Presentation: “Atomic and Molecular Functional Materials”
693. **25 January 2007** Stockholm University/Sweden: Lecture
Lecture: “The Art and Practice of Molecular Electronic Device Design and Construction”
694. **26–27 January 2007** Stockholm/Sweden: Berzelius Days Event
Invited Lecture: “Knots Galore”
695. **11–14 March 2007** University of Florida/Gainesville: 8th Florida Heterocyclic
Conference

696. **Plenary Lecture: “Thermodynamically and Kinetically Controlled Template-Directed Synthesis”**
15–16 March 2007 University of Florida/Gainesville: Center for Research at the Bio/Nano Interface
697. **Lecture: “The Art and Practice of Molecular Electronic Device Design and Construction”**
24–29 March 2007 Chicago: Spring 2007 ACS Meeting/Peter Stang Award Symposium
Lecture: “Iodide-Catalyzed Magic Ring Opening as an Efficient Route to Donor-Acceptor [2]Catenanes”
698. **10–11 April 2007** Penn State University: Materials Day
Plenary Lecture: “The Art and Practice of Molecular Electronic Device Design and Construction”
699. **19–22 April 2007** Purdue/West Lafayette IN: HC Brown Lectures in Organic Chemistry
Invited Lecture: “The Art and Practice of Molecular Electronic Device Design and Construction”
700. **27 April 2007** Hong Kong: “14th Annual Symposium on Chemistry Postgraduate Research in Hong Kong”
Keynote Lecture: “Covalent and Coordinative Dynamic Chemistry”
701. **30 April 2007** Hong Kong: HKU Department of Chemistry Seminar
Seminar: “Molecular and Supramolecular Nanovalves”
702. **7–9 May 2007** ECUST Shanghai/China: International Conference on Molecular Machines and Sensors
Invited Lecture: “The Art and Practice of Molecular Electronic Device Design and Construction”
703. **30 May 2007** Santa Barbara CA: CNID PI Meeting
Lecture: “Stimuli-Responsive Molecular Nanovalves”
704. **3–7 June 2007** Duke University/Durham/NC: 40th National Organic Chemistry Symposium
Invited Lecture: “An Integrated Systems-Oriented Approach to Molecular Electronics”
705. **6–10 June 2007** Edinburgh/Scotland: The Young Giants in Chemistry: A Scientific Meeting in Celebration of the 65th Birthday of JFS
Final Lecture: “Walking in the Footsteps of Young(-ish) Giants”
706. **11 June 2007** University Chemical Laboratory/Cambridge/UK: Departmental Seminar
Seminar: “Molecular Memories”
707. **16–19 June 2007** Nottingham/UK: Opening of Nanoscience and Nanotechnology Center
Lecture: “Molecular Memories”
708. **24–30 June 2007** Salice Terine (Pavia)/Italy: 32nd International Symposium on Macrocyclic Chemistry
Plenary Lecture: “Covalent and Coordinative Dynamic Chemistry”
709. **10–13 July 2007** Tsukuba/Japan: 1st NIMS Conference on Recent Breakthroughs in Materials Science and Technology
Invited Lecture: “Chemistry and Molecular Nanotechnology for Tomorrow’s World”
710. **22–27 July 2007** Awaji Island/Kobe/Japan: 12th International Symposium on Novel Aromatic Compounds (ISNA-12)
Plenary Lecture: “The Art and Practice of Molecular Electronic Device Design and Construction”
711. **5–7 August 2007** Northwestern/Evanston/IL: 13th International Conference on Unconventional Photoactive Systems
Invited Lecture: “Molecular and Supramolecular Nanovalves”
712. **6–9 August 2007** College Park/MD: 9th International Conference on Calixarenes
Plenary Lecture: “Mingling Art with Science”
713. **19–23 August 2007** Boston: Fall 2007 ACS Meeting
(1) Symposium on “Bold Predictions in Theoretical Chemistry: A Symposium in Honor of One of

the Boldest, Bill Goddard on the Occasion of his 70th Birthday

Invited Lecture: “**Chemistry and Molecular Nanotechnology in Tomorrow’s World**”

(2) Symposium on “Chemistry of the Mechanical Bond and Beyond”

Lecture: “**Thermodynamically and Kinetically Controlled Template-Directed Synthesis**”

714. **5–8 September 2007** Annapolis/MD: MoleApps PI Review Meeting

Presentation: “**Molecular and Supramolecular Nanovalves**”

715. **10 September 2007** Ankara/Turkey: Academy Conference of the Turkish Academy of Science at the Cultural and Conventional Center of the Middle East Technical University

Lecture: “**Chemistry and Molecular Nanotechnology for Tomorrow’s World**”

716. **12 September 2007** Enschede/The Netherlands: David Reinhoudt Farewell Symposium

Plenary Lecture: “**Chemistry and Molecular Nanotechnology for Tomorrow’s World**”

717. **13 September 2007** Institute of Physics/London/UK: Evening Lecture

Lecture: “**Chemistry and Molecular Nanotechnology for Tomorrow’s World**”

718. **14 September 2007** Oxford University/Oxford/UK: Seminar to the Oxford Bionanotechnology Group

Lecture: “**Molecular and Supramolecular Nanovalves**”

719. **22 September 2007** Guadalajara/Mexico: 42nd Meeting of the Mexican Chemical Society

Opening Plenary Lecture: “**Chemistry and Molecular Nanotechnology in Tomorrow’s World**”

720. **24 September 2007** Northwestern University/Evanston/IL

(1) Presentation to the New Graduate Students

Presentation: “**Some Great Graduate Students and Research Themes Old and New**”

(2) MURI Kick-Off Meeting on “Bioinspired Supramolecular Enzymatic Systems”

Presentation: “**Sliding Bars and Doors**”

721. **9–10 October 2007** Arlington/VA: Conference on “Productive Nanosystems: Launching the Technology Roadmap”

Feynman Prize Award Address: “**Feynman Revisited**”

722. **29 October 2007** University of Chicago/Chicago/IL: Closs Lecture Series

Seminar: “**Chemistry and Molecular Nanotechnology for Tomorrow’s World**”

723. **15–16 November 2007** Brigham Young University/Provo/UT: Izatt-Christensen Lectureship

Public Lecture: “**Mingling Art with Science**”

Research Lecture: “**Chemistry and Molecular Nanotechnology in Tomorrow’s World**”

724. **19 November 2007** University of Arkansas/Fayetteville/AR: 2007/2008 Arthur Fry Lectureship

Fry Lecture: “**Chemistry and Molecular Nanotechnology for Tomorrow’s World**”

725. **23–26 November 2007** Universidad Autónoma de Nuevo León, Monterrey, Mexico: Albert Einstein World Award of Science

Award Lecture: “**Chemistry and Molecular Nanotechnology for Tomorrow’s World**”

726. **28 Nov–1 Dec 2007** Hotel Métropole/Brussels/Belgium: 21st Solvay Conference on Chemistry on “From Noncovalent Assemblies to Molecular Machines”

Invited Lecture: “**Template Synthesis of Catenanes and Rotaxanes**”

727. **3 December 2007** Arlington/VA: Nanoscale Science and Engineering 2007 NSF Grantees Conference

Keynote Lecture: “**What can Mechanical Bonds bring to Synthetic NanoSystems and Nanomachinery?**”

728. **18–19 December 2007** University of Manchester/UK: RSC UK Macrocyclic and Supramolecular Chemistry Group Meeting

Keynote Lecture: “**Chemistry and Molecular Nanotechnology in Tomorrow’s World**”

729. **29–30 January 2008** Luxe Hotel/Los Angeles: Fourth Annual FENA Review

Presentation: “**Atomic and Molecular Functional Materials**”

730. **22 February 2008** McCormick Tribune Campus Center/IIT/Chicago: Kilpatrick Lecture

Lecture: “**Chemistry and Molecular Nanotechnology in Tomorrow’s World**”

731. **1–5 March 2008** University of Kuwait/Kuwait City/Kuwait: 5th Eurasian Meeting on Heterocyclic Chemistry
Plenary Lecture: “Mingling Art with Science”
732. **6–7 March 2008** Baylor University/Waco/Texas: 2008 Gooch-Stephens Lectureship
(1) *General Lecture: “Mingling Art with Science”*
(2) *Lecture: “Chemistry and Molecular Nanotechnology in Tomorrow’s World”*
733. **17–20 March 2008** Appalachian State University/Boone/NC: 2008 Morgan Science Lectureship
(1) *Public Lecture: “Mingling Art with Science”*
(2) *Lecture: “Chemistry and Molecular Nanotechnology in Tomorrow’s World”*
734. **1 April 2008** Boston College/Chestnut Hill/Boston: Organic Seminar
Seminar: “Chemistry and Molecular Nanotechnology in Tomorrow’s World”
735. **2 April 2008** Kent State University/Cleveland/OH
Lecture: “Chemistry and Molecular Nanotechnology in Tomorrow’s World”
736. **6–10 April 2008** New Orleans/LA: ACS Spring National Meeting: Symposium on “Stimuli-Responsive Polymers”
Invited Lecture: “Polymers with Noncovalent Bonding on the Side”
737. **19 April 2008** Norris University Center/Northwestern University/Evanston: A Day With Northwestern/Lecture for NU Alumni
Presentation: “Mingling Art and Everyday things with Nanoscience and Nanotechnology”
738. **21–22 April 2008** Peter B Sherry Memorial Lectureship/Georgia Institute of Technology/Atlanta/GA
Technical talk: “Chemistry and Molecular Nanotechnology in Tomorrow’s World”
General talk: “Mingling Art with Science”
739. **27–29 April 2008** One-Day Symposium on “Trends in Organic Chemistry”/Uppsala/Sweden
Lecture: “Molecular and Supramolecular Nanovalves”
740. **13 May 2008** Nanotechnology Town Hall Meeting/Northwestern University/Evanston
Presentation: “Mingling Art with Science”
741. **14 May 2008** Defense Advanced Research Projects Agency (DARPA) Meeting Los Angeles/CA
Presentation: “Mechanized Nanoparticles for Drug Delivery”
742. **19–20 May 2008** NIH Workshop on “Future Directions of Multivalent Agents in Therapeutic Development”/Bethesda/MD
Presentation: “Concept Transfer between Materials Science and the Life Sciences”
743. **10–12 June 2008** French American Chemical Society Meeting (FACS XIII)/Santa Barbara/CA
Lecture: “Folding Polyrotaxanes Using Secondary Supramolecular Interactions”
744. **17–19 June 2008** International Conference on Nanotechnology/Jeddah/Saudi Arabia
Keynote Lecture: “Chemistry and Molecular Nanotechnology in Tomorrow’s World”
745. **25–29 June 2008** Symposium on “Molecular Nanoscience 2008: The State of the Art” Reading/UK
Lecture: “Chemistry and Molecular Nanotechnology in Tomorrow’s World”
746. **16–20 August 2008** ACS Fall National Meeting/Philadelphia/PA
17 August 2008
Tetrahedron Prize Lecture: “Big and Little Meccano”
19 August 2008
Cope Award Lecture: “Accentuating the Abstract in Contemporary Chemistry”
747. **1–4 September 2008** Yamada Conference on “Symposium on Topological Molecules”/Awaji Island/Hyogo/Japan
Plenary Keynote Lecture: “Mechanostereochemistry”
748. **19–22 October 2008** October 2008 International Institute of Nano and Molecular Medicine Grand Opening/Columbia/MD

749. *Lecture: "Mechanostereochemistry"*
23–24 October 2008 William Smart Endowed Lectureship in Chemistry/
 University of West Florida/Pensacola/FL
- General Lecture: "Mingling Art with Science"*
 750. *Scientific Presentation: "Chemistry and Molecular Nanotechnology in Tomorrow's World"*
11–12 November 2008 The Watkins Lectures/Wichita State University/Wichita/KS
General Lecture: "Mingling Art with Science"
751. *Scientific Talk: "Chemistry and Molecular Nanotechnology in Tomorrow's World"*
20 November 2008 International Institute of Nanotechnology/Grand Ballroom/
 Hotel Orrington/Evanston/IL
- Presentation: "Mechanized Nanoparticles"*
 752. **9–13 December 2008** SIMMposium in Honor of Roeland Nolte/Nijmegen/The Netherlands
Lecture: "Functionalized and Mechanized Nanoparticles"
753. **16 December 2008** Supra-Nano 2008/University of Birmingham/UK
Invited Lecture: "Mechanized Nanoparticles"
754. **22 January 2009** Northwestern Memorial Healthcare (NMHC) Board
 Meeting/Chicago/IL
Invited presentation: "Mechanized Nanoparticles"
755. **25–27 February 2009** Armes Lectureship/University of Manitoba/Winnipeg/Canada
"Technical Lecture: "Chemistry and Molecular Nanotechnology in Tomorrow's World"
General Lecture: "Mingling Art with Science"
756. **3 March 2009** Moses Gombert Lecture Series/University of Michigan/Ann Arbor/MI
Named Lecture: "Chemistry and Molecular Nanotechnology in Tomorrow's World"
757. **5–6 March 2009** 28th Donald G Davis Memorial Lectureship/University of New
 Orleans/LA
Named Lecture: "Chemistry and Molecular Nanotechnology in Tomorrow's World"
758. **18–23 March 2009** Professor Alain Krief's Retirement Celebration
 University of Namur/Namur/Belgium
Presentation: "Chemistry and Molecular Nanotechnology in Tomorrow's World"
759. **26–30 March 2009** Nanotech Insight 2009/Barcelona/Spain
Keynote Lecture: "Mechanostereochemistry"
760. **28 June 2009** Gordon Research Conference on Chemistry of Supramolecules and
 Assemblies / Colby College/Waterville/ME
Invited Talk: "Mechanostereochemistry"
761. **5 July 2009** Gordon Research Conference on Photochemistry
 Bryant University/Providence/RI
Invited Talk: "Mechanostereochemistry"
762. **3 August 2009** 42nd IUPAC Congress on Chemistry Solutions/Glasgow/Scotland
Plenary Lecture: "Mechanostereochemistry"
763. **29–31 October 2009** Banff Symposium on Organic Chemistry
Invited Lecture: "Mechanostereochemistry"
764. **3 November 2009** Argonne National Laboratory/Chemical Science and Engineering
 Division / Chicago / IL
Colloquium: "Mechanostereochemistry"
765. **19–20 November 2009** 2009 Chatt Lectureship/John Innes Center/Norwich/UK
Named Lecture: "Radically Enhanced Molecular Recognition"
766. **26–27 November 2009** Symposium in Honor of Jean-Pierre Sauvage/Strasbourg/France
Invited Lecture: "Radically Enhanced Molecular Recognition"
767. **12 January 2010** Material Science and Engineering Department
 Northwestern University / Evanston / IL
*Research Colloquium: "Fashioning Functional Materials with Integrated
 Mechanostereochemical Systems"*
768. **2 February 2010** CNSI Seminar Series/UCLA/CA
 Lecture: "Molecular Nanotechnology in Tomorrow's World"

769. **16 February 2010** Distinguished Lecture Series/Molecular Foundry/LBNL/Berkeley/CA
Lecture: “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
770. **19 February 2010** INTEL/Santa Clara/CA
Lecture: “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
771. **25–26 February 2010** Aggarwal Lectures in Polymer Science
Cornell University/Ithaca/NY
Lecture 1: “Polyrotaxanes”
Lecture 2: “Polycatenanes”
772. **4–7 April 2010** Foundation Pierre-Gilles de Gennes for Research
Montagne Saint-Genevieve/Paris/France
Invited Lecture: “Molecular Nanotechnology in Tomorrow’s World”
773. **27–28 April 2010** ISNSCE Award at FNANO 2010
Snowbird/Utah
Award Lecture: “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
774. **17–21 May 2010** Beilstein Bozen Symposium 2010 on Molecular Interactions
and Systems Chemistry
Hotel Schloss/Korb/Germany
Invited Lecture: “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
775. **7 June 2010** GDCh Summer Term Lecture Series
Humboldt University/Berlin/Germany
Lecture: “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
776. **10 June 2010** International Symposium on Macrocyclic and
Supramolecular Chemistry V (ISMSC 2010) Nara/Japan
Invited Lecture: “Dynamic Stereochemistry”
777. **12 June 2010** Joint Symposium of Post 5th ISMSC and The 6th Symposium on
Host-Guest Chemistry
International House/Osaka/Japan
Invited Lecture: “Kinetic and Thermodynamic Polycatenations”
778. **14 June 2010** Global COE International Symposium on Future Molecular Systems –
Beyond Supramolecular Chemistry 2010
INAMORI International Hall/Kyushu University/Fukuoka/Japan
Invited Lecture: “Beyond Organic Reticulated Geometries”
779. **15 June 2010** International Symposium on Nano-Bio Molecular Assembly 2010
Yonsei University / S Korea
Invited Lecture: “Nanoporous Carbohydrate Frameworks”
780. **23 July 2010** Black Forest Focus on Soft Matter 4
Freiburg Institute for Advanced Studies / Saig / Germany
Invited Lecture: “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
781. **6–9 August 2010** Royal Society of Edinburgh / Scotland
Award : Royal Medal from Duke of Edinburgh
782. **11 August 2010** INANO–NCNST Summer School
Sandbjerg Manor/Sonderborg/Denmark
Invited Lecture: “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
783. **22 August 2010** 2010 ACS Meeting POLY/PMSE Symposium Towards Self-
Assembling Materials
Boston/MA
Invited Talk: “Polycatenation under Kinetic and Thermodynamic Control”
784. **24–26 August 2010** Summer School on Nanotechnology – From Architecture to Function
Villars/Montreux/Switzerland
After Dinner Talk: “Mingling Art with Science”

- Talk 1: “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
 Talk 2: “Beyond Open Reticulated Geometries”
 Talk 3: “Nanoporous Carbohydrate Frameworks”
785. **31 August 2010** Seeing at the Nanoscale VIII
 Congress Center/Basel/Switzerland
Keynote Lecture: “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
786. **9–10 September 2010** Frontiers in Chemistry Lecture Series/ Case Western Reserve
 University
 Cleveland/OH
Seminar: “Beyond Open Reticulated Geometries”
787. **17–20 October 2010** Supramolecular Chemistry Quo Vadis
 Taormina / Sicily
Invited Lecture : “Radically Enhanced Molecular Recognition”
788. **10–12 November 2010** Samsung Technical Conference 2010
 Hotel Shilla / Seoul / Korea
Keynote Speech : “An Integrated Mechanostereochemical Systems Approach to Molecular Electronics”
789. **29–30 November 2010** Saudi International Nanotechnology Conference 2010
 KACST Headquarters / Riyadh / KSA
Opening Lecture : “Molecular Nanotechnology in Tomorrow’s World”
790. **1–2 December 2010** JSPS Second International Symposium on Molecular Nanotechnology
 Nara/Japan
Plenary Lecture : “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
791. **17–20 December 2010** PACIFICHEM
 Honolulu/Hawaii
 (1) 18 December : Molecular Based Ordered Materials Formed Through Self-Organisation
Invited Talk : “Polycatenation under Kinetic and Thermodynamic Control”
 (2) 19 December : Self-Assembly and Coordination Chemistry
Invited Talk : “Edible MOFs in the Making”
792. **26–27 January 2011** Chemistry Colloquium Speaker
 Pennsylvania State University/State College/PA
Colloquium : “An Integrated Mechanostereochemical Systems Approach to Molecular Electronics”
793. **27–28 January 2011** FENA Retreat
 Sycamore Mineral Springs Resort / Avila Beach / CA
Presentation : “Functional Atomic / Molecular Materials”
794. **31 January–2 February 2011** Symposium on Catalysis and Sensing for Health (CASH)
 Bath/UK
Invited Lecture : “Nanoporous Carbohydrate Frameworks”
795. **20 February 2011** AAAS 2011 Meeting – Symposium on Molecular Self-Assembly and
 Artificial Molecular Machines
Invited Talk : “Fashioning Functional Materials with Integrated Mechanostereochemical Systems”
796. **7–8 March 2011** CSACS Lecturer
 McGill University / Montreal / Canada
Seminar : “Robust Dynamics in Metal-Organic Frameworks”
797. **8–9 March 2011** CSACS Lecturer
 University of Sherbrooke / Canada
Seminar : “Robust Dynamics in Metal-Organic Frameworks”
798. **10 March 2011** CSACS Lecturer
 INRS/Varenes / Canada
Seminar : “An Integrated Mechanostereochemical Approach to Molecular Electronics”

799. **10–11 March 2011** Sigma Xi Colloquium
University of Maine / Orono / ME
General Lecture : “**Mingling Art with Science**”
Research Lecture : “**Robust Dynamics in Metal-Organic Frameworks**”
800. **19–22 March 2011** Joint Vietnam – USA Symposium on the Chemistry of MOFs
Sheraton Hotel / Ho Chi Minh City Vietnam
Invited Lecture : “**Nanoporous Carbohydrate Metal-Organic Frameworks**”
801. **5 April 2011** Faculty Lunch Seminar / Department of Chemistry / NU
Seminar : “**Radical Mechanostereochemistry**”
802. **26 April 2011** 2011 MRS Meeting / Symposium on Artificial Muscles
San Francisco / CA
Invited Talk : “**Fashioning Functional Materials with Integrated Mechanostereochemical Systems**”
803. **9 May 2011** FENA Annual Review
Boston / MA
Presentation : “**Functional Atomic and Molecular Materials**”
804. **16–17 May 2011** Cardiff Spring Conference 2011
University of Cardiff / Wales
Plenary Lecture : “**Nanoporous Carbohydrate Metal-Organic Frameworks**”
805. **26 May–2 June 2011** Symposium on Frontiers in Macromolecular and Supramolecular
Science Dracula’s Country / Romania
Invited Lecture : “**Nanoporous Carbohydrate Metal-Organic Frameworks**”
806. **2 June 2011** Frontiers in Biomimetic and Coordination Chemistry:
A Symposium in Honor of Abraham Shanzer
Weizmann Institute / Rehovot / Israel
Talk : “**Nanoporous Carbohydrate Metal-Organic Frameworks**”
807. **24–26 June 2011** Foresight’s 25th Anniversary Conference Celebration and Reunion
Weekend Google Mountain View Headquarters / Silicon Valley / CA
Talk : “**Robust Dynamics in Integrated Chemical Systems**”
808. **26–30 June 2011** 2011 GRC on Physical Organic Chemistry
Holderness School / NH
Invited Talk : “**Structure and Mechanism in Radical Mechanostereochemistry**”
809. **1–2 July 2011** Second International Conference on Cucurbiturils (ICCB 2011)
Cambridge / UK
Invited Lecture : “**Mechanised Silica Nanoparticles: A New Frontier in Theranostic Medicine**”
810. **18–20 July 2011** Nanobiotechnology Series
Stanford School of Medicine / Stanford / CA
Guest Lecture : “**Mechanized Mesoporous Silica Nanoparticles as Potential Drug Delivery Systems**”
811. **24–28 July 2011** 2011 GRC on Clusters, Nanocrystals and Nanostructures
Mount Holyoke College / South Hadley / MA
Invited Talk : “**Molecular Switches on Nanoparticles**”
812. **30 July–7 August 2011** 43rd IUPAC World Chemistry Congress : 60 Years and 60 Carbons –
A Symposium on Fullerenes and Supramolecular Chemistry in Honor
of Luis Echegoyen (Angel Kaifer)
San Juan / Puerto Rico
Invited Lecture : “**Structure and Mechanism in Radical Mechanostereochemistry**”
813. **25–26 November 2011** International Symposium on Chemistry in the XXIst Century –
Supramolecular?
Royal Castle / Warsaw / Poland
Invited Lecture : “**Structure and Mechanism in Radical Mechanostereochemistry**”
814. **6 January 2012** Philosophical Society of Washington – Spring 2012 Lecture Series
Washington, DC
Invited Lecture : “**The Beauty and Promise of Molecular Nanotechnology**”

815. **9 January 2012** Society for Analytical Chemists of Pittsburgh (SACP) and Spectroscopic Society of Pittsburgh (SSP)
Pittsburgh / PA
Invited Lecture : “**Nanoporous Carbohydrate Metal-Organic Frameworks**”
816. **24–26 January 2012** Seminar in the School of Chemical and Physical Sciences
Victoria University / Wellington / NZ
Seminar : “**Structure and Mechanism in Radical Mechanostereochemistry**”
817. **29 January–2 February 2012** ISMSC-7 2012
University of Otago / Dunedin / NZ
Public Lecture : “**Mingling Art with Science**”
818. **3–11 February 2012**
(a) Department of Chemistry / National University of Singapore / Singapore
Seminar : “**Structure and Mechanism in Radical Mechanostereochemistry**”
(b) Nanyang Technological University / Singapore
(i) *Public Lecture* : “**The Beauty and Promise of Molecular Nanotechnology**”
(ii) *Graduate Inorganic Chemistry Course* (4 Hours)
(iii) *Senior Undergraduate Course : Current Topics in Inorganic Chemistry* (3 Hours)
(iv) *Senior Undergraduate Course : Current Topics in Organic Chemistry* (1 Hour)
819. **21 February 2012** College of Lake County / Vernon Hills / IL
Invited Lecture : “**The Beauty and Promise of Molecular Nanotechnology**”
820. **22–24 February 2012** 2012 Bigeleisen Lecture
State University of New York / Stony Brook / NY
Named Lecture : “**The Beauty and Promise of Molecular Nanotechnology**”
821. **10–18 March 2012** RSC Chemical Nanoscience and Nanotechnology Meeting
Newcastle University / Newcastle / UK
Invited Lecture : “**Nanoporous Carbohydrate Metal-Organic Frameworks**”
822. **21–23 March 2012** Jones Lectureship in Department of Chemistry
Queen’s University / Kingston / ON
(i) *Public Lecture* : “**The Beauty and Promise of Molecular Nanotechnology**”
(ii) *Jones Lecture* : “**Nanoporous Carbohydrate Metal-Organic Frameworks**”
823. **24–26 March 2012** 243rd ACS National Meeting : Symposium on “Chemistry of Materials”
Honoring Ric Kaner
Invited Talk : “**Noncovalent Functionalization of Graphene Oxide Layers with Tetracationic Cyclophanes**”
824. **23 April 2012** Intel URO Offsite Meeting / San Francisco / CA
Invited Talk : “**A Lifetime at the Academic Industrial Interface**”
825. **6 May 2012** State Key Laboratory of Supramolecular Structure and Materials
Changchun / China
Invited Talk : “**The Nature of the Mechanical Bond**”
826. **4–7 May 2012** 16th International Cyclodextrin Symposium 2012
Tianjin / China
Plenary Lecture : “**Nanoporous Carbohydrate Metal-Organic Frameworks**”
827. **9–11 May 2012** MacLean Lectureship / Department of Chemistry & Chemical Biology
McMaster University / Hamilton / ON
MacLean Lecture : “**Structure and Mechanism in Radical Mechanostereochemistry**”
Public Lecture : “**The Beauty and Promise of Molecular Nanotechnology**”
828. **25 May 2012** Northwestern University Library Board of Governors
NU / Chicago Campus
Invited Talk : “**Mingling Art with Science**”
829. **6–13 July 2012** Macro Group UK International Conference on Polymer Synthesis & UKPCF International Conference on Polymer Colloids
Warwick / UK

- Plenary Lecture* : **“Positive Cooperativity in the Template-Directed Synthesis of Monodisperse Macromolecules”**
 830. **22 August 2012** PMSE Symposium on “Novel Organic and Metal–Organic Porous Materials”
 Philadelphia / PA : 244th National ACS Meeting
- Invited Lecture* : **“Stereochemical Expression of Molecular Recognition during the Formation of Extended Structures”**
 Division of Energy and Fuels Symposium on “Metal Organic Frameworks for Energy Applications”
- Invited Lecture* : **“One-Dimensional Single-Crystalline Coordinated Carbohydrate Architectures”**
 831. **23 August 2012** Dow Chemical Company
 Springhouse / PA
- Seminar* : **“Introducing Host-Guest Chemistry and (Mechano)Stereochemistry into Nanoporous Carbohydrate Polymers”**
 832. **26–30 August 2012** 4th European Chemical Societies (EuCheMS) Congress
 Prague / Czech Republic
- Invited Lecture* : **“From Molecular Switches to Molecular Machines”**
 833. **31 August–3 September** 9th International Conference on Advancing the Chemical Sciences :
 Challenges in Nanoscience”
 Xiamen / China
- Plenary Lecture* : **“Molecular Switches on Surfaces and in Devices”**
 834. **15–20 September 2012** International Conference on Frontiers in Biomedical Nanotechnology
 Riyadh / Saudi Arabia
- Plenary Lecture* : **“Mechanized Nanoparticles for the Treatment of Breast Cancer : Towards Low Dosage and Highly Targeted Drug Delivery”**
 835. **30 Sept –3 Oct 2012** Lord Lectureship / Allegheny College
 Meadville / PA
- Technical Seminar* : **“From Molecular Switches to Molecular Machines”**
Public Evening Lecture : **“Mingling Art with Science”**
 836. **24–28 October 2012** DYNAMOL : European Commission-Sponsored Research
 Training Network
 Symposium
- Invited Lecture* : **“Nanoporous Carbohydrate Polymers : Materials for Tomorrow’s World”**
 837. **3–7 November 2012** General Talk to NYUAD Institute
 NYU Abu Dhabi Institute / Abu Dhabi
- Talk* : **“Scientific Research on a Global Scale”**
 838. **11–13 January 2013** Foresight Technical Conference : Session on Molecular Machines
 and Non-Equilibrium Processes”
 Crowne Plaza Hotel / Palo Alto / CA
- Lecture* : **“Autonomous Artificial Molecular Transport”**
 839. **16–17 January 2013** Henry Dreyfus Chemistry Lectureship
 Department of Chemistry/ Dartmouth College / NH
- General Lecture* : **“Mingling Art and Science”**
Technical Lecture : **“New Twists and Turns in Radical Organic Chemistry”**
 840. **3–5 February 2013** Departmental Seminar
 Department of Chemistry / University of Miami / FL
- Students’ Choice Seminar* : **“New Twists and Turns in Radical Organic Chemistry”**
 841. **14–15 February 2013** Cava Lectureship
 University of Alabama / Tuscaloosa / AL
- General Lecture* : **“Mingling Art and Science”**
Technical Lecture : **“Structure and Mechanism in Radical Mechanostereochemistry”**
 842. **3–7 March 2013** Third International Conference on Multifunctional, Hybrid and
 Nanomaterials

- Sorrento / Italy
843. *Plenary Lecture* : **“From Molecular Switches to Molecular Machines”**
19–21 April 2013 11th Raymond Castle Research Conference
 Department of Chemistry / University of South Florida / FL
844. *Plenary Lecture* : **“Mingling Art with Science”**
26 April 2013 Wawzonek Lectureship
 Department of Chemistry / University of Iowa / Iowa City / IA
845. *Lecture* : **“Chemistry and Molecular Nanotechnology in Tomorrow’s World”**
28 April–2 May 2013 High Polymer Research Group (HPRG) Conference on
 Supramolecular Self-Assembly
 Pott Shrigley / Cheshire / UK
846. *Invited Lecture* : **“Making Stuff and Directing Things”**
15–20 May 2013 International Symposium on “Templates in Chemistry –
 Present and Future”
 University of Bonn / Bonn / Germany
847. *Plenary Lecture* : **“Radical Temptation”**
25–29 June 2013 Scotland Chemistry Tercentenary
 University of Edinburgh / Edinburgh / Scotland
848. *Public Lecture* : **“Chemistry’s Place in Today’s World”**
30 June–3 July 2013 International Conference on Materials and Advanced Technologies
 (ICMAT 2013)
 Singapore International Convention and Exhibition Centre / Singapore
849. *Plenary Lecture* : **“From Molecular Switches to Molecular Machines”**
7–11 July 2013 International Symposium on Macrocyclic and Supramolecular
 Chemistry (ISMSC-8)
 Crystal City / Arlington / VA
850. *Plenary Lecture* : **“Artificial Molecular Motors”**
31 August–5 September 2013 European Symposium on Organic Reactivity (ESOR 2013)
 Prague / Czech Republic
851. *Plenary Lecture* : **“New Twists and Turns in Radical Organic Chemistry”**
9 September 2013 246th ACS Meeting : Symposium on Supramolecular Nanomaterials
 (COLL Division)
 Indianapolis Convention Center / Indianapolis / IN
852. *Invited Lecture* : **“From Molecular Switches to Molecular Motors”**
13 September 2013 35th Princeton ACS Fall Organic Chemistry Symposium
 Princeton / NJ
853. *Seminar* : **“Three Tales of Serendipity”**
10–18 October 2013 Birch Lectureship at Australian National University
 Canberra / Australia
854. *Public Lecture* : **“Mingling Art with Science”**
Lecture 1 : **“New Twists and Turns in Radical Organic Chemistry”**
Lecture 2 : **“Three Chemical Tales of Serendipity at Work in the Nano Foundry”**
23–25 October 2013 10th Anniversary Nanoscience Days
 University of Jyväskylä / Jyväskylä / Finland
855. *Special Anniversary Lecture* : **“Three Tales of Serendipity at Work in the Nano Foundry”**
20–25 November 2013 Alfred Werner Symposium
 University of Zürich / Zürich / Switzerland
856. *Talk* : **“Second Sphere Coordination Revisited”**
16–17 December 2013 RSC Macrocyclic and Supramolecular Conference (MASC 2013)
 School of Chemistry / University of Glasgow / Scotland
857. *Plenary Lecture* : **“Radical Macrocyclic and Supramolecular Chemistry”**
12–17 January 2014 27th International Carbohydrate Symposium (ICS27)
 Indian Institute of Science / Bangalore / India
- Plenary Lecture* : **“Extended Metal-Carbohydrate Frameworks”**

858. **15 January 2014** 2014 Centenary Lecture
Indian Institute of Science / Bangalore / India
Centenary Lecture : “**Radical Mechanostereochemistry**”
859. **17–18 February 2014** William G Dauben Lectureship in Organic Chemistry
UC Berkeley / CA
Lecture : “**Radical Mechanostereochemistry**”
860. **27 February 2014** Vista Lectureship
UT Austin / TX
Lecture : “**Radical Mechanostereochemistry**”
861. **28 February–2 March 2014** Mardi Gras Symposium 2014: “The Exciting Side of Supramolecular Chemistry”
Kendal Cram Hall / Lavin-Bernick Center / Tulane University
New Orleans / LA
Invited Lecture : “**Three Tales of Serendipity**”
862. **16–20 March 2014** PMSE Symposium on “Dynamic Covalent Chemistry in Polymer Science” / 247th American Chemical Society Meeting
Dallas / TX
Talk : “**Dynamic Naphthalene Diimide-Based Oligorotaxanes**”
863. **22–26 March 2014** Yukon Science Institute
Lectures in Whitehorse and Dawson City / Yukon / Canada
Lectures : “**Making Gold Green**”
864. **Wednesday 16 April 2014** Science Café
Firehouse Grill / Evanston / IL
Talk : “**Serendipity : Making Gold Green**”
865. **29–31 May 2014** 17th International Cyclodextrin Symposium (ICS17)
Saarland University / Saarbrücken / Germany
Keynote Lecture : “**Extended Metal-Carbohydrate Frameworks**”
866. **1–5 June 2014** Gordon Research Conference on Crystal Engineering
Waterville Valley Resort / Waterville Valley / NH
Talk : “**Three Tales of Serendipity**”
867. **7–11 June 2014** 9th International Symposium on Macrocyclic and Supramolecular Chemistry (9ISMSC)
Conference Center / SIOC / Shanghai / China
Plenary Lecture : “**Extended Metal-Carbohydrate Frameworks**”
868. **29–4 July 2014** Workshop on Molecular Rotors, Motors, and Switches
Telluride Science Research Center (TRSC) / Telluride / CO
Invited Lecture : “**From Molecular Switches to Molecular Motors**”
869. **10–14 August 2014** 248th American Chemical Society Meeting
San Francisco / CA
(i) Two-Day COLL Symposium on “Supramolecular Nanoparticles” (Vince Rotello)
Talk : “**Development of Supramolecular Nano-Gating on Mesoporous Silica for In Vivo Therapeutic Applications**”
(ii) PMSE Symposium on “Functional Supramolecular Polymers” (Stuart Rowan)
Talk : “**Controlled π - π Assemblies by Dynamic Covalent Chemistry**”
(iii) PMSE 2014 National Fresenius Award Symposium in Honor of Will Dichtel (Stuart Rowan)
Talk : “**Artificial Molecular Motors**”
(iv) ENFL Session on “Metal-Organic Frameworks for Sustainable Energy” (Omar Farha)
Talk : “**Extended Metal-Carbohydrate Frameworks**”
870. **25–30 September 2014** 7th PKU–Eli Lilly Symposium of Organic Chemistry
Peking University / China
Invited Lecture : “**Artificial Molecular Motors**”
871. **2–11 November 2014** RSC Workshop Event
Delhi / Hyderabad / Chennai / India
Three Plenary Lectures : “**The Nature of the Mechanical Bond**”

872. *Three Schools Lectures* : “**Mingling Art with Science**”
20 November 2014 Alan G. /MacDiarmid Medal
 University of Pennsylvania / Philadelphia / PA
873. *Lecture* : “**The Nature of the Mechanical Bond**”
26–30 November 2014 IRTG Symposium
 CeNTech Münster / Germany
874. *Invited Lecture* : “**The Nature of the Mechanical Bond**”
1–4 December 2014 3rd Saudi International Nanotechnology Conference
 KACST / Riyadh/ KSA
875. *Invited Lecture* : “**Extended Nanoporous Carbohydrate Frameworks**”
24–29 January 2015 Bordeaux 2015 Symposium on Foldamers
 Bordeaux / France
876. *Plenary Lecture* : “**Viologen-Based Foldamers**”
1–13 February 2015 RSC Centenary Lectures
 London–Nottingham–Reading–Leeds / UK
- (i) **4 February 2015** RSC Southeast Regional Meeting Organic Division
 Imperial College London :
- Centenary Lecture* : “**The Nature of the Mechanical Bond**”
 (ii) **6 February 2015** Department of Chemistry
 Nottingham University
- Centenary Lecture* : “**The Nature of the Mechanical Bond**”
 (iii) **9 February 2015** RSC Centenary Lecture Symposium
 Reading University
- Centenary Lecture* : “**The Nature of the Mechanical Bond**”
 (iv) **11 February 2015** Department of Chemistry
 Leeds University
- Centenary Lecture* : “**The Nature of the Mechanical Bond**”
 877. **22 March 2015** 249th ACS National Meeting / POLY Division Symposium on
 “Next Generation Smart Materials” (One Day Only)
 Denver / CO
878. *Invited Lecture* : “**Tunable Solid-State Fluorescent Materials for Supramolecular Encryption**”
7–12 June 2015 GRC on “Artificial Molecular Switches and Motors”
 Stonehill College / Easton / MA
879. *Invited Lecture* : “**Artificial Molecular Machines and Switches**”
3–5 July 2015 50th Anniversary of the Lehn Laboratory
 Strasbourg / France
880. *Invited Lecture* : “**From Supramolecular to Emergent and Integrated Systems Chemistry**”
6–9 July 2015 CALIX 2015
 Taormina / Sicily / Italy
881. *Plenary Lecture* : “**ExBox and ExCage**”
31 July 2015 Institute Program
 Institute of Chemistry / Chinese Academy of Sciences / Beijing / China
882. *Molecular Science Frontier Lecture* : “**The Nature of the Mechanical Bond**”
16 August 2015 Mark Scholar Award in Honor of Stuart Rowan / POLY DIV
 Boston / MA : 250th ACS National Meeting
883. *Invited Lecture* : “**A New Approach for Constructing Two-Dimensional Monolayers**”
25 September 2015 Departmental Program
 Peking University / Beijing / China
884. *Xinda Forum* : “**The Nature of the Mechanical Bond**”
22 November 2015 Departmental Program
 St Andrews / Dundee / Scotland
885. *Invited Lecture* : “**The Nature of the Mechanical Bond**”
15–20 December 2015 PACIFICHEM 2015 / Honolulu / HI
 (i) Symposium on “Practical Applications of Basic Research on Molecular Recognition”

- (Tran / Kano / Easton)
Talk : “**Tunable Solid State Fluorescent Materials for Supramolecular Encryption**”
(ii) Symposium on “Frontiers of Organic Porous Materials”
(Jang / Wang / Zhang)
Talk : “**Separation Science with Cyclodextrin Metal-Organic Frameworks**”
(iii) Symposium on “Organic Solid-State Chemistry, Properties, and Reactivity”
(Sakamoto / MacGillivray Vittal)
Talk : “**The Solid State Properties of CBPQT⁴⁺, CBPQT²⁽⁺⁾, CBPQT⁰ and Catenanes Containing these Different Redox States of CBPQT⁴⁺**”
886. **23–25 January 2016** Scottish Supramolecular Symposium
UT Austin / Austin / TX
Invited Lecture : “**To a Tale or Two of Serendipity**”
887. **14–17 March 2016** 251st ACS National Meeting on “Supramolecular Chemistry :
A Crown and Anchor Approach”
San Diego / CA
Invited Lecture : “**Cation Dependent Gold Recovery with α -Cyclodextrin facilitated by Second-Sphere Coordination**”
888. **20–24 March 2016** “Frontiers in Chemical Research Lecture Series”
Texas A&M University / College Station / TX
Three Invited Lectures in the Department of Chemistry under the theme : “Emergent and Integrated Systems Chemistry”
Talk 1 “**The Nature of the Mechanical Bond**”
Talk 2 “**Design and Synthesis of Non-Equilibrium Systems**”
Talk 3 “**Three Tales of Serendipity**”
889. **20 April 2016** Opening Event of the Nanoscale and Microscale Research Centre
(NMRC)
University of Nottingham / UK
Invited Talk : “**The Nature of the Mechanical Bond**”
890. **21–22 April 2016** 2016 Douglas G Hill Memorial Lecture
Department of Chemistry / Duke University / Durham / NC
Lecture : “**The Nature of the Mechanical Bond**”
891. **1–4 May 2016** DOE BES 2016 BRN Workshop for “Synthesis Science for
Energy Relevant Technology”
Rockville Hilton / MD
Short Talk : “**Non-Equilibrium Systems**”
892. **20–24 June 2016** The Durham Lectures 2016
University of Durham / Durham / UK
Lecture 1 “**The Nature of the Mechanical Bond**”
Lecture 2 “**Cooperative Capture in Rotaxane Synthesis**”
Lecture 3 “**Serendipity at Work**”
893. **29 June – 1 July 2016** Third International Symposium on Micro- and Nanomachines
Herrenhausen Palace / Hannover / Germany
Keynote Talk : “**Design and Synthesis of Non-Equilibrium Systems**”
894. **10–16 July 2016** ISMSC 2016
The K-Hotel Seoul / Korea
Plenary Lecture : “**Artificial Molecular Pumps**”
895. **17–23 July 2016** Workshop on “Molecular Rotors, Machines and Switches”
Telluride / CO
Talk : “**The Nature of the Mechanical Bond: From Molecules to Machines**”
896. **26 July 2016** 5th International Conference on “Molecular Sensors and Molecular
Logic Gates” (MSMLG 2016)
University of Bath / Bath / UK
Conceptual Lecture : “**Serendipity at Work**”

897. **26–29 July 2016** GRC Conference on “Stereochemistry”
Salve Regina / Newport / RI
Invited Lecture : “**Stereochemistry of the Mechanical Bond**”
898. **2–5 August 2016** INASCON 2016. International Nanoscience Student Conference
Enschede / The Netherlands
Keynote Lecture : “**Serendipity at Work**”
899. **21–25 August 2016** 252nd American Chemical Society Meeting : Division of Polymer
Chemistry : “A Materials Genomic Approach to Materials Structure
and Function”
Philadelphia / PA
Invited Lecture : “**Making Sliding Ring Polymers Using a Dual Molecular Pump**”
900. **25–26 October 2016** 4th Saudi International Nanotechnology Conference / SINC 2016
KFUMP / Dhahran Campus
Invited Lecture : “**The Nature of the Mechanical Bond : From Molecules to Machines**”
901. **31 October 2016** Royal Society of Chemistry Carbohydrate Group Meeting :
Haworth Memorial Lecture
University of Warwick / UK
Haworth Memorial Lecture : “**Serendipity at Work**”
902. **1 November 2016** Special Nobel Lecture
School of Chemistry / The University of Birmingham
Special Lecture : “**The Nature of the Mechanical Bond : From Molecules to Machines**”
903. **10 November 2016** 2016 Ulliyot Public Affairs Lecture
Chemical Heritage Foundation
Philadelphia / PA
Public Lecture : “**Mingling Art with Science**”
904. **11 November 2016** Symposium in Honor of Andrew Hamilton
New York University / New York / NY
Invited Lecture : “**The Nature of the Mechanical Bond : From Molecules to Machines**”
905. **8 December 2016** Nobel Committee for Chemistry
Royal Swedish Academy of Sciences
Stockholm / Sweden
Nobel Lecture : “**Design and Synthesis of Molecular Machines Based on the Mechanical Bond**”
906. **9 December 2016** Meeting with High School Students
Bromvac Gymnasium / Stockholm / Sweden
Lecture : “**Introducing a New Bond in Chemistry : The Mechanical Bond**”
907. **9 December 2016** Meeting with High School Students
Rålabshovsskolan / Stockholm / Sweden
Lecture : “**Introducing a New Bond in Chemistry : The Mechanical Bond**”
908. **13 December 2016** Department of Chemistry
Uppsala University
Uppsala / Sweden
Invited Lecture : “**Design and Synthesis of Molecular Machines based on the Mechanical Bond**”
909. **14 December 2015** Chalmers University of Technology & Gothenburg University
Gothenburg / Sweden
Invited Lecture : “**Design and Synthesis of Molecular Machines based on the Mechanical Bond**”
910. **15 December 2016** Erskine Stewart’s Melville Schools
Edinburgh / Scotland / UK
Talk : “**Reflections on Meeting the Queen of Scotland and the King of Sweden**”
911. **15 December 2016** MASC 2016 University of Edinburgh
Edinburgh / Scotland / UK
Plenary Lecture : “**A Look at Life Before and After the Age of 64**”
912. **16 December 2016** Swan Lecture Theatre / King’s Buildings
University of Edinburgh / Scotland / UK
Invited Lecture : “**Design and Synthesis of Molecular Machines Based on the Mechanical Bond**”

913. **17–21 January 2017** Great Hall of the People / Beijing / China : National Government – Foreign Experts Symposium
SAFEA Speech : **“The Creation and Exploration of Possible Other Worlds”**
914. **20–26 February 2017** Peiyang Symposium and International Symposium on Visionary Trends in Molecular Science
Tianjin University / Tianjin / China
Symposium Lecture : **“The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
Presentation to Undergraduate and High School Students : **“Reflections on Meeting the Queen of England and the King of Sweden”**
915. **28 February 2017** East China University of Science and Technology (ECUST)
Shanghai / China :
Presentation
Seminar : **“Probing Ways of Getting Molecular Machines to (Do) Work”**
916. **1 March 2017** University / Shanghai / China : Wu Zhengkai Lectureship
Lecture : **“Materials Beyond Cyclodextrins. A Double Round of Serendipity”**
917. **2 March 2017** China Normal University (ECNU) / Shanghai / China : Presentation
Seminar : **“The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
918. **6 March 2017** Strasbourg / France : Nobel Day in Strasbourg
Seminar : **“The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
919. **7 March 2017** French Academy of Sciences / Institut de France / Quai Conti / Paris :
Presentation on Molecular Machines
Seminar : **“Probing Ways of Getting Molecular Machines to (Do) Work”**
920. **14 March 2017** University of Sheffield / Sheffield / UK : Public Lecture incorporating the Krebs Lecture
Public / Krebs Lecture : **“The Mechanical Bond : Mingling Art with Science”**
921. **28–30 March 2017** Munich / Germany : Wacker Biosolutions Annual Meeting
Presentation : **“Materials Beyond Cyclodextrins : Emergence Opens Up a Whole New World”**
922. **31 March 2017** / UC Berkeley / CA : Forum on Materials Beyond IV
Presentation : **“Materials Beyond Cyclodextrins : A Double Round of Serendipity”**
923. **4–5 April 2017** San Francisco / CA : 253rd American Chemical Society National Meeting : Division of Polymer Chemistry : “Smart Molecules and Materials from Cyclodextrins”
Invited Lecture : **“Concurrent Covalent and Supramolecular Polymerization”**
914. **11–13 April 2017** University of Warwick / UK : Faraday Conference
General Public Lecture : **“The Mechanical Bond : Mingling Art with Science”**
925. **2–3 May 2017** KACST / Riyadh / Kingdom of Saudi Arabia : Workshop
Lecture 1 : **“The Rise and Promise of Molecular Machines Based on the Mechanical Bond”**
Lecture 2 : **“Materials Beyond Cyclodextrins : Emergence Opens Up a Whole New World”**
926. **5 May 2017** Royal Sonesta Hotel / Cambridge / MA : 6th Advances in Chemical Sciences Symposium
Keynote Lecture : **“The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
927. **7–9 May 2017** Zhejiang University / Shanghai / China : Zhu Kezhan Distinguished Lectures
General Lecture : **“The Mechanical Bond : Mingling Art with Science”**
Second Lecture : **“Materials Beyond Cyclodextrins : Emergence Opens Up a Whole New World”**
928. **10 May 2017** Chengdu / China : 2017 Chengdu Global Innovation and Entrepreneurship Fair
Keynote Speech : **“The Road to Stockholm and Beyond”**
Keynote Speech : **“Serendipity Strikes Twice : Emergence Opens up a Whole New World of Wonders”**
929. **11 May 2017** Sichuan University / Chengdu / China :
Chemistry Department Lecture

930. *Lecture* : **“The Mechanical Bond : Mingling Art with Science”**
12 May 2017 NICE / Beijing / China : 2017 International Forum on Clean Energy
 Technology and Engineering Management
931. *Lecture* : **“Going for Gold”**
13 May 2017 Peking University / Beijing / China : SAFEA Award Ceremony :
 International Teacher of the Year
932. *Keynote Lecture* : **“The Road to Stockholm and Beyond”**
15 May 2017 Canadian Academy / Rokko Island / Kobe / Japan : High School
933. *Talk* : **“The Mechanical Bond : Mingling Art with Science”**
16 May 2017 Kobe / Japan : Kobe Women’s Club
934. *Talk* : **“The Mechanical Bond : The Road to Stockholm”**
20–21 May 2017 2017 Gordon Research Seminar on “Self-Assembly and
 Supramolecular Chemistry” with the subtitle, “Kinetic and
 Thermodynamic Understanding of Applied Supramolecular Systems”
 Les Diablerets / Switzerland
935. *Keynote Lecture* : **“Materials Beyond Cyclodextrins : Emergence Opens Up a Whole New World”**
24 May 2017 Slivka Fireside Chat
 Northwestern / Evanston
936. *Talk* : **“The Road to Stockholm”**
26–29 May 2017 2017 American Crystallographic Association (ACA) Meeting
 Orleans / LA
937. *Opening Ceremony Lecture* : **“How Crystallography Helped to Create a New Bond in Chemistry”**
6 June 2017 Hong Kong Baptist University
 Hong Kong / China
938. *Invited Lecture* : **“The Nature of the Mechanical Bond : Mingling Art with Science”**
7 June 2017 Sun Yat-Sen University
 Shenzhen / China
939. *Invited Lecture* : **“Serendipity Strikes Twice : Emergence Opens Up a Whole New World of
 Wonders”**
11–16 June 2017 Gordon Research Conference on “Artificial Molecular Switches
 and Machines”
 Holderness School / Holderness / NH
940. *Invited Lecture* : **“Probing Ways of Getting Molecular Machines to (Do) Work”**
18–23 June 2017 9th International Symposium on Materials and Advanced Technologies
 (ICMAT 2017)
 Pan Pacific Hotel / Singapore
941. *Plenary Lecture* : **“Materials Beyond Cyclodextrins : A Double Round of Serendipity”**
Nobel Laureate Public Lecture : **“The Mechanical Bond : Mingling Art with Science”**
19 June 2017 Nanyang Chemistry Distinguished Lectureship
 Nanyang Technical University / Singapore
942. *Lecture* : **“The Rise and Potential of the Mechanical Bond in Chemistry and Beyond”**
27 June 2017 University of Nottingham / UK : Seminar on Serendipity
943. *Talk* : **“Serendipity Strikes Twice : Emergence Opens Up a Whole New World of Wonders”**
9–14 July 2017 Sao Paulo / Brazil : 46th IUPAC World Chemistry Congress (IUPAC-
 2017)
944. *Special Plenary Lecture* : **“The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
20–23 July 2017 2017 Graduate Research Symposium
 Portland State University / Portland / OR
945. *45 Minute Seminar* : **“The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
24 July 2017 Portland State Women in STEM Group
 Portland State University / Portland / OR
946. *Lecture* : **“Materials Beyond Cyclodextrins : Emergence Opens up a Whole New World of Wonders”**
25–28 July 2017 17th IEEE International Conference on Nanotechnology
 (IEEE–NANO 2017)

- Pittsburgh Marriott City Center / Pittsburgh / PA
947. **Plenary Talk : “A Case History in Designing and Constructing Artificial Molecular Machines”**
20–22 August 2017 254th American Chemical Society National Meeting :
Tetrahedron Symposium in Honor of Ben Feringa
Washington / DC
948. **Invited Lecture : “The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
9 September 2017 Scottish Innovation Award / Baird of Bute Society
Rothesay / Bute / Scotland
949. **Invited Talk : “My Road to Stockholm”**
23–27 September 2017 International Conference on Chemistry Progress for Sustainable
Development / Bibliotheca Alexandrina / Alexandria / Egypt
- Invited Lecture : “Materials Beyond Cyclodextrins : Emergence Opens Up a Whole New World”**
**Invited Lecture : “A Global Strategy for Conducting Research and Mentoring Young Researchers
in the 21st Century”**
950. **30 September 2017** Chicago Organic Symposium / University of Illinois at Chicago
Keynote Lecture : “The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”
951. **9 October 2017** Engineering Scotland Autumn Lecture
University of Glasgow / Glasgow / Scotland
952. **Invited Lecture : “The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
21 October 2017 Celebrating the 60th Anniversary of ECUST
ECUST / Shanghai / China
953. **Keynote Lecture : “The Rise and Promise of Molecular Machines Based on the Mechanical Bond”**
24 October 2017 Organic Letters / Journal of Organic Chemistry Two-Day Symposium
sponsored by ACS on “Innovation in Molecular Synthesis”
Shanghai
954. **Lecture : “The Design and Synthesis of Artificial Molecular Machines”**
25 October 2017 Tsinghua Xuetang Lecture
Tsinghua University / Beijing / China
955. **Lecture : “My Journey to Stockholm”**
26 October 2017 Understanding Science Beijing
Science Café / Beijing / China
956. **Lecture : “My Journey to Stockholm”**
Informal Talk : “Meet a Nobel Knight and a Tsinghua Adventurer Face-to-Face”
29 October 2017 Future Forum Annual Conference
China World Hotel / Beijing / China
957. **Lecture : “My Journey to Stockholm”**
3 November 2017 Highlands in Chemistry Lecture Series, The Friends of Larry Taylor
Lectureship
Virginia Tech / Blacksburg / VA
958. **Lecture : “The Rise and Promise of Molecular Machines Based on the Mechanical Bond”**
5–8 November 2017 ACS Asia-Pacific International Chapters Conference
Jeju / South Korea
959. **Plenary Lecture : “My Journey to Stockholm”**
13 November 2017 Netherlands Award for Supramolecular Chemistry
Technical University of Eindhoven / The Netherlands:
960. **Invited Lecture : “The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
14 November 2017 Netherlands Award for Supramolecular Chemistry
Technical University of Eindhoven / The Netherlands:
961. **Invited Lecture : “My Journey to Stockholm”**
15 November 2017 Netherlands Award for Supramolecular Chemistry
Radboud University Nijmegen / Nijmegen / The Netherlands:
962. **Invited Lecture : “The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
16 November 2017 Netherlands Award for Supramolecular Chemistry
University of Twente / Enschede / The Netherlands

- Invited Lecture* : “**Materials Beyond Cyclodextrins as We Know Them : Emergence Opens up a Whole New World of Wonders**”
963. **17 November 2017** Netherlands Award for Supramolecular Chemistry
Wageningen University / The Netherlands
- Lecture* : “**The Rise and Promise of the Mechanical Bond in Chemistry and Beyond**”
964. **20 November 2017** Molecular Machines Nobel Prize Conference
University of Groningen / The Netherlands :
- Plenary Lecture* : “**Emergent Applications in NanoScience and Supramolecular Chemistry**”
965. **28 November – 2 December 2017** Hong Kong Baptist University / Hong Kong / China : General Lecture
- Public Lecture* : “**My Journey to Stockholm**”
966. **1 December 2017** Symposium on Nanomachines : Powering Molecules
Hong Kong Baptist University / Hong Kong / China : General Lecture
- Keynote Lecture* : “**The Rise and Promise of Artificial Molecular Machines**”
967. **5 December 2017** University of Sharjah / Sharjah / UAE : Public Presentations in front of the Ruler
- Lecture* : “**My Journey to Stockholm**”
- Lecture* : “**Emergent Applications in NanoScience and Supramolecular Chemistry**”
968. **10 December 2017** Alexander von Humboldt Foundation International Advisory Board
Berlin / Germany
- Dinner Speech* : “**Trust in Science and Scholarship**”
969. **12 December 2017** Technische Universität Institute of Chemistry
Berlin / Germany
- Seminar* : “**The Rise and Promise of Molecular Machines Based on the Mechanical Bond**”
970. **18–20 December 2017** Galileo School of Higher Education : Galileo Lecture
University of Padova / Italy :
- Lectio Magistralis* : “**My Journey to Stockholm**”
971. **19 December 2017** Department of Chemical Sciences
University of Padova / Italy
- Lecture* : “**The Rise and Promise of Molecular Machines Based on the Mechanical Bond**”
972. **16–18 January 2018** Global Frontiers in Science and Technology Program for Chinese Business Leaders
Stanford University / Palo Alto / CA
- Presentation* : “**The Power of Serendipity in Producing Emergent NanoSystems with Profound Nanotechnological Implications**”
973. **21–25 January 2018** Sixth Global Young Scientists Summit (GYSS 2018)
National Research Foundation / Singapore
- Masterclass* : “**My Journey to Stockholm**”
- Small Group Presentation* : “**The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond**”
- Plenary Lecture* : “**Going for Gold**”
974. **23 January 2018** Public Lecture
National University of Singapore / Singapore
- Lecture* : “**My Journey to Stockholm**”
975. **28–31 January 2018** International Conference on Nanoscience and Nanotechnology
University of Wollongong / Australia
- Public Lecture* : “**My Journey to Stockholm**”
- Plenary Lecture* : “**The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond**”
976. **1 February 2018** Centennial Lectureship
University of Texas / El Paso / TX
- Centennial Lecture* : “**My Journey to Stockholm**”
977. **5 February 2018** Chemistry Department’s Student-Invited Seminar Committee
Colorado School of Mines / Golden / CO

- Seminar* : **“Materials Beyond Cyclodextrins : Emergence Opens Up a Whole New World of Wonders”**
978. **6–10 February 2018** Pure and Applied Chemistry International Conference 2018
(PACCON 2018) :
Chemistry Towards a Sustainable Future
Hat Yai / Songkhla / Thailand
- Plenary Lecture* : **“Materials Beyond Cyclodextrins : Emergence Opens Up a Whole New World of Wonders”**
979. **9 February 2018** Prince of Songhla University
Hat Yai / Songhla / Thailand
- Lecture* : **“My Journey to Stockholm”**
980. **9 February 2018** Chulalongkorn University
Bangkok / Thailand
- Lecture* : **“The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond”**
981. **12 February 2018** Faculty of Science
Mahidol University / Bangkok / Thailand
- Lecture* : **“My Journey to Stockholm”**
982. **13–16 February 2018** 10th Anniversary of TAMU in Qatar and QAFCD Symposium
Doha / Qatar
- Keynote Lecture* : **“My Journey to Stockholm”**
983. **11–15 March 2018** 10th HOPE Meeting
Yokohama / Tokyo / Japan
- Esteemed Lecture* : **“The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond”**
984. **16 March 2018** Special Lecture
University of Tokyo / Tokyo / Japan
- Lecture* : **“My Journey to Stockholm”**
985. **19–23 March 2018** Apeloig Lecture
Technion / Israel Institute of Technology / Haifa / Israel
- Lecture* : **“The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond”**
986. **3 April 2018** Supporting the Next Generation of Scientists / First Warwick
Postdoctoral Science Symposium
Department of Chemistry / University of Warwick / UK
- Keynote Lecture* : **“My Journey to Stockholm”**
987. **4–6 April 2018** Royal Netherlands Chemical Society, Organic Division, Wageningen
International Symposium
Wageningen / The Netherlands
- Lecture* : **“Materials Beyond Cyclodextrins : Emergence Opens Up a Whole New World of Wonders”**
988. **12–14 April 2018** Inaugural Walter A Szarek Lecture
Queen’s University / Kingston / Ontario / Canada
- Lecture* : **“Materials Beyond Cyclodextrins : Emergence Opens Up a Whole New World of Wonders”**
989. **15 April 2018** Chicago Area Undergraduate Research Symposium (CAURS)
DePaul University / Chicago
- Lecture* : **“My Journey to Stockholm”**
990. **22–24 April 2018** President’s Lecture Series
University of Montana / Missoula / MT
- Seminar* : **“The Rise and Promise of the Mechanical Bond in Chemistry and Beyond”**
- Lecture* : **“Mingling Art with Science”**
991. **10 May 2018** Science Museum Annual Dinner
Science Museum / South Kensington / London / UK

992. *Speech* : **“Engines Through the Ages”**
14–18 May 2018 Universidad Autonoma Madrid / Spain
Lecture : **“The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond”**
993. **19–22 May 2018** Sir Jesse Boot Foundation Lectureship
Department of Chemistry / University of Nottingham / UK
Lecture : **“Serendipity Stokes Discovery : Disrupting Established Industries”**
994. **30 May 2018** Wolf Prize Symposium
Technion / Israel Institute of Technology / Haifa / Israel :
Lecture : **“Materials Beyond Cyclodextrins : Emergence Opens Up a Whole New World of Wonders”**
995. **3–7 June 2018** Grand Challenges in the Chemical Sciences
Israel Academy of Sciences and Humanities / Jerusalem / Israel :
Lecture : **“The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond”**
996. **9–12 June 2018** ACHEMA – World Forum for Processing Industries
Frankfurt / Germany
Opening Ceremony Plenary Lecture : **“Serendipity Stokes Discovery : Disrupting Established Industries”**
997. **16–18 June 2018** Panel Discussions in Asia Pacific Region : Wiley Impact Forums
Seoul / South Korea
Presentation : **“Transformative Research : Doing Your Own Thing”**
998. **19 June 2018** Top Talk
Tsinghua University / Beijing / China
Talk : **“Serendipity Stokes Discovery : Disrupting Established Industries”**
999. **20 June 2018** Yang Shixian Forum
Nankai University / Tianjin / China
Named Lecture : **“The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond”**
1000. **26–30 June 2018** 3rd Telluride Conference on Molecular Rotors, Motors and Switches
Telluride / CO
Town Talk : **“Engines Through the Ages”**
Invited Lecture : **“Making Mechanical Bonds with Electricity”**
1001. **8–13 July 2018** 13th International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC-2018)
Québec City / Québec / Canada
Nobel Lecture : **“Life After a Nobel Prize”**
1002. **14–18 July 2018** Merck 350 Anniversary Scientific Conference / Curious 2018 Future Insight - Frankfurt / Germany
Keynote Lecture : **“The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond”**
1003. **3–5 August 2018** Northwestern University / Evanston IL : 10th Anniversary of the Dichtel Group
Presentation : **“Engines Through the Ages”**
1004. **6–10 August 2018** International Nanoscale Student Conference (INASCON 2018)
Norwegian University of Science and Technology
Trondheim / Norway
Lecture : **“Life After a Nobel Prize”**
1005. **12–17 August 2018** Howard Nobel Lectureship
University of New South Wales / Sydney / Australia
Named Lecture : **“Engines Through the Ages”**
First-Year Undergraduate Lecture : **“My Journey to Stockholm”**
Public Lecture : **“Mingling Art with Science”**
1006. **19–23 August 2018** Nanoscience, Nanotechnology and Beyond

- ACS Meeting / Boston / MA
- Presentation to ACS Board of Directors : “Research Experience Through Innovation : Doing Your Own Thing”*
- Patterson-Crane Award Symposium / Multidisciplinary Program Group (Award to Paul Weiss / ULCA)
- Invited Lecture : “Treating Molecular Nanotechnology to Show and Tell”*
- Materials Genome Approach to Structure and Function / Division of Polymer Chemistry
- Invited Lecture : “Harnessing Artificial Molecular Machines in Slide-Ring Polymer Synthesis”*
1007. **1–5 September 2018** 2018 Makhlouf Haddadin Lectureship / Department of Chemistry
American University of Beirut / Beirut / Lebanon
- Research Talk : “The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond”*
- Mentoring Talk : “Research Excellence Through Innovation : Doing Your Own Thing”*
1008. **9–17 September 2018**
- Tour de China : Several Venues**
- 11 September** One-Day British-Chinese Symposium
Zhejiang University
- Invited Lecture : “Life After a Nobel Prize”*
- 12–14 September 2018** Visionary Trends in Molecular Sciences
Tianjin University
- Program : “Engines Through the Ages”*
- 15 September 2018** Celebration of 60th Anniversary
Beijing University of Chemical Technology
- Invited Lecture : “Mingling Art with Science”*
- 16 September 2018** Conference on Promoting New Chemistry
Beijing Institute of Technology
- Invited Lecture : “Research Excellence Through Innovation : Doing Your Own Thing”*
- 17 September 2018** World Conference on Science Literacy / Promoting Science Literacy
Beijing China Association for Science and Technology
- Invited Lecture : “The American Chemical Society Project SEED Program : A 50-Year-Long Experiment in Promoting Science Literacy in the United States”*
- Invited Lecture : “Research Excellence Through Innovation : Doing Your Own Thing”*
1009. **24–25 September 2018** Annual Center for Integrated Technologies (CINT) Users Meeting
La Fonda on the Plaza / Santa Fe / NM
- Keynote Address : “The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond”*
1010. **4–5 October 2018** 2018 Samuel Weissman Lectures
Department of Chemistry / Washington University / St Louis
- Public Lecture : “Engines Through the Ages”*
- Seminar : “Life After a Nobel Prize”*
1011. **7–8 October 2018** Irvine Memorial Lecture
St Andrews University / UK
- General Interest Lecture : “Sweet Reflections : Tracing my Academic Lineage Back to Sir James Irvine”*
1012. **11 October 2018**
- Rugby School / Rugby / UK : Science Society**
- Talk : “My Journey to Stockholm”*
1013. **15–17 October 2018** 2018 Emerson Center Award
Emory University / Atlanta / GA
- Keynote Lecture : “The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond”*
1014. **18–21 October 2018** Symposium on the Frontiers of Sciences and Transformation /
WE Forum
Westlake University / Hangzhou / China : Founding Ceremony
- Invited Speech : “The Wisdom of Supporting Creative People to do Transformative Research”*

1015. **21–25 October 2018** Symposium ArmChemFront 2018
Ani Plaza Hotel / Yerevan / Armenia
Plenary Lecture : “**Engines Through the Ages**”
TUMO Creative Center Lecture : “**My Journey to Stockholm**”
1016. **25–27 October 2018** University of Southern Denmark
Odense / Denmark
Invited Lecture : “**Farmer’s Boy Turned Scientist Meets Queen of Scotland and King of Sweden**”
1017. **28–30 October 2018** 2018 Mitchum E Warren Jr Lecture in Chemistry
Vanderbilt University / Nashville / TN
Named Lecture : “**The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond**”
1018. **31 October–2 November 2018** Mislow Symposium / Department of Chemistry
Princeton University / Princeton / NJ
Invited Lecture : “**Radical Chemistry in the Design and Synthesis of Artificial Molecular Machines**”
1019. **4–7 November 2018** 2018 Sustainable Industry Processing Summit (SIPS)
Othon Palace Hotel / Copacabana Beach / Rio de Janeiro / Brazil
Plenary Lecture : “**Serendipity Stokes Discovery : Disrupting Established Industries**”
1020. **19–23 November 2018** Molecular Machine Days
University of Bologna / Bologna / Italy
Invited Lecture : “**Radical Chemistry in the Design and Synthesis of Artificial Molecular Machines**”
1021. **26–29 November 2018** Mautner Memorial Lecture Series
UCLA / Los Angeles / CA
Public Lecture : “**My Journey to Stockholm**”
Research Lecture : “**Engines Through the Ages**”
1022. **2–7 December 2018** 43rd National Convention / South African Chemical Institute
International Convention Center / CSIR / Pretoria / South Africa
Plenary Lecture : “**The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond**”
1023. **12–14 December 2018** Two-Day Symposium on Supramolecular Chemistry
Lyon / France
Invited Lecture : “**Radical Chemistry in the Design and Synthesis of Artificial Molecular Machines**”
1024. **14 December 2018** Université Claude Bernard Lyon
Lyon / France
Public Lecture : “**Doing One’s Own Thing**”
1025. **2 January 2019** ACERA / The Massachusetts School of Science Creativity and
Leadership
Boston / MA
Middle School Talk : “**Doing One’s Own Thing**”
1026. **9–11 January 2019** College of Chemistry and Molecular Science
Wuhan University / Wuhan / China
General Lecture : “**My Journey to Stockholm**”
Research Lecture : “**Radical Chemistry in the Design and Synthesis of Artificial Molecular Machines**”
1027. **20–25 January 2019** Global Young Scientists Summit (GYSS) 2019
NTU / Singapore
Plenary Lecture : “**Materials Beyond Cyclodextrins : Emergence Opens Doors**”
Small Group Discussion : “**Doing One’s Own Thing**”
1028. **25–26 January 2019** Burns Symposium
University of Chicago
Presentation / 30 min : “**Radical Chemistry**”

1029. **23–25 February 2019** SuperChem 2019
Würtzburg / Germany
Invited Lecture : “**The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond**”
1030. **11 March 2019** New Zealand Institute of Chemistry
Auckland University of Technology / Auckland / New Zealand
Seminar : “**The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond**”
1031. **16–19 March 2019** 2019 Wallace H Coulter Lecture
Pennsylvania Convention Center / Philadelphia / PA
Named Lecture : “**Serendipity Stokes Discovery : Disrupting Established Industries**”
1032. **23 March 2019** Special Seminar
University of Tokyo / Tokyo / Japan
Seminar : “**Serendipity Stokes Discovery : Disrupting Established Industries**”
1033. **24–25 March 2019** Symposium on Building and Probing Small
Palace of the Academies in Brussels / Belgium
Plenary Lecture : “**Radical Chemistry**”
1034. **26–28 March 2018** Centenary Celebration of the Finnish Chemical Society
Helsinki / Finland
Invited Lecture : “**The Rise and Promise of Artificial Molecular Machines Based on the Mechanical Bond**”
1035. **31 March–4 April 2019** Spring 2019 ACS National Meeting / Graduate Student Symposium
on “Artificial Molecular Machines and the Next Generation of
Molecular Control”
Orlando / FL
Invited Presentation : “**Precision Synthesis of Polyrotaxanes Enabled by Artificial Molecular
Machines**”
Orlando / FL : Spring ACS National Meeting / ACS Chemistry of
Materials Award
Invited Talk : “**Radical Chemistry in the Design and Synthesis of Artificial Molecular
Machines**”
1036. **8 April 2019** Nobel Prize Inspiration Initiative (NPII)
Universidade de São Paulo / São Paulo / Brazil
Invited Lecture : “**My Journey to Stockholm**”
1037. **9 April 2019** NPII
Universidade de Brasilia / Brasilia / Brazil
Invited Lecture : “**Engines Through the Ages**”
1038. **10 April 2019** NPII
Universidade Federal Fluminense / Niterói / Brazil
Invited Lecture : “**My Journey to Stockholm**”
1039. **12 April 2019** Distinguished Habbermann Lecture
Department of Chemistry / Marquette University / Milwaukee / WI
Invited Lecture : “**My Journey to Stockholm**”
1040. **14–15 April 2019** 2018 Michelson Lecture
United States Naval Academy / Annapolis / MD
Lecture : “**Engines Through the Ages**”
1041. **17–19 April 2019** 2019 Dwan L Ford Guest Lecture Series / Chemistry and
Biochemistry Seminar Program
Andrews University / Berrien Springs / MI
Seminar : “**Engines Through the Ages**”
1042. **23–24 April 2019** Frank C Mathers Lectureship
Indiana University / Bloomington / IN
Named Lecture : “**The Rise and Promise of Artificial Molecular Machines Based on the
Mechanical Bond**”

1043. **28–30 April 2019** Special University Seminar
Clemson University / Clemson / SC
Seminar: “My Journey to Stockholm”
1044. **1 May 2019** Great Lakes Regional ACS Meeting / “Chemistry Connections –
Careers – Education – Sustainability”
Sheraton Lisle / Naperville / IL
*Plenary Lecture : “The Rise and Promise of Artificial Molecular Machines Based on the
Mechanical Bond”*
1045. **2–5 May 2019** Kentucky Derby Lectureship
University of Louisville / Louisville / KY
*Derby Lecture : “Radical Chemistry in the Design and Synthesis of Artificial Molecular
Machines”*
General Audience Lecture : “My Journey to Stockholm”
1046. **5–8 May 2019** Frontiers in Polymer Science
Budapest / Hungary
*Invited Lecture : “The Growing Impact of the Mechanical Bond on Polymer and Materials
Sciences”*
1047. **15–16 May 2019** Mendel Lecture
Augustinian Abbey / Brno / Czech Republic
*Invited Lecture : “The Rise and Promise of Artificial Molecular Machines Based on the
Mechanical Bond”*
1048. **19–21 May 2019** 2019 IUPAC Conference on Crop Protection
Ghent University / Ghent / Belgium
Keynote Lecture : “Research Excellence Through Innovation : Doing One’s Own Thing”
1049. **20–21 May 2019** Seminar on Science for Peace and Sustainability
Ghent University / Ghent / Belgium
Seminar : “Serendipity Stokes Discovery : Disrupting Established Industries”
1050. **29–30 May 2019** Bracco
Milan / Italy
Invited Lecture : “Serendipity Stokes Discovery : Disrupting Established Industries”
1051. **30 May–1 June 2019** Natta Lecture
Politecnico di Milano / Milan / Italy
*Named Lecture : “The Growing Impact of the Mechanical Bond on Polymer and Materials
Sciences”*
1052. **2–6 June 2019** XIV International Symposium on Macrocyclic and Supramolecular
Chemistry (ISMSC-2019)
Leece / Italy
Invited Lecture : “A Decade of Radical Chemistry by the Trabolsi School”
High School Lecture : “My Journey to Stockholm”
1053. **19–20 June 2019** 2019 Sigma Xi – Edison Memorial Lecture
Naval Research Laboratory / Washington, DC
Named Lecture : “Engines Through the Ages”
1054. **23–27 June 2019** Materials Research Society of Singapore
Singapore : ICMAT 2019
Public Lecture : “Research Excellence Through Innovation : Doing One’s Own Thing”
*Plenary Lecture : “The Growing Influence of the Mechanical Bond on Polymer and Materials
Sciences”*
1055. **28 June–1 July 2019** Conference on Nanoscience and Nanotechnology (6th ICAN)
Corfu / Greece
Opening Plenary Lecture : “Radical Molecular Technology”
1056. **3–5 July 2019** International Conference on Electrical Engineering
Hong Kong
*Keynote Presentation : “Precision Production of Polyrotaxanes Enabled by Artificial
Molecular Pumps”*

1057. **7–8 July 2019** 14th International Conference on Materials (MC14)
Aston University / Birmingham / UK
Invited Lecture : “**The Growing Influence of the Mechanical Bond on Polymer and Materials Sciences**”
1058. **9–11 July 2019** IUPAC 47th World Chemistry Congress and 50th General Assembly
of IUPAC Paris Convention Center / Paris / France
Joint Plenary Lecture with Jean-Pierre Sauvage and Ben Feringa : “**Three Tenors for an Ode to Soft Machines**”
1059. **11–13 July 2019** University of Rennes / Brittany / France :
General Lecture on My History
Invited Lecture : “**My Journey to Stockholm**”
1060. **14–18 July 2019** 21st European Symposium on Organic Chemistry (ESOC 2019)
Vienna / Austria
Invited Lecture : “**Radical Chemistry in the Design and Synthesis of Artificial Molecular Machines**”
1061. **1–2 August 2019** Berkeley Global Science Institute / Laboratory Research Experience
(LRE)
Program / UC Berkeley College of Chemistry / Berkeley / CA
Invited Lecture : “**The Growing Impact of the Mechanical Bond on Polymer and Materials Sciences**”
1062. **4–9 August 2019** Annual Meeting of the International Society of Electrochemistry
Durban / South Africa
Opening Plenary Lecture : “**Radical Chemistry**”
Master Class : “**Electrochemistry on the Hoof**”
1063. **20–24 August 2019** World Laureates Association Sanya Marine and Life Science
Sanya / China
Invited Presentation : “**Taking Cyclodextrin Metal–Organic Frameworks from the Research Laboratory to the Market Place**”
1064. **5–6 September 2019** OVPRED University Wide Distinguished Lectureship
State University of New York / Buffalo / NY
Distinguished Lecture : “**The Growing Impact of the Mechanical Bond on Polymer and Materials Sciences**”
1065. **15–18 September 2019** 110th Anniversary Celebration of Lanzhou University
Lanzhou / China
Invited Lecture : “**My Journey to Stockholm**”
1066. **24–28 September 2019** ICI Distinguished Lecture Series
University of Calgary / Calgary / Canada
Public Lecture : “**My Journey to Stockholm**”
Research Lecture 1 : “**Taking Cyclodextrin Metal–Organic Frameworks from the Research Laboratory to the Market Place**”
Research Lecture 2 : “**The Growing Impact of the Mechanical Bond on Polymer and Materials Sciences**”
1067. **29 September – 1 October 2019** LIV Mexican Congress of Chemistry
University of Puebla / Puebla / Mexico
Plenary Lecture : “**The Growing Impact of the Mechanical Bond on Polymer and Materials Sciences**”
1068. **5–8 October 2019** 16th Annual Meeting of the Science and Technology Society (STS)
Forum - Kyoto / Japan
Talk : “**Mentorship in Tomorrow’s World**”
1069. **9–10 October 2019** World University Forum on Materials Science & Engineering
Leadership
Wuhan / China
Conference Presentation : “**Taking Cyclodextrin Metal–Organic Frameworks from the Research Laboratory to the Market Place**”

1070. *University Presentation* : **“The Growing Impact of the Mechanical Bond on Polymer and Materials Sciences”**
12 October 2019 Association of Chinese-American Scientists and Engineers (ASCE)
 Schaumburg / IL
1071. *Keynote Lecture* : **“Taking Cyclodextrin Metal–Organic Frameworks from the Research Laboratory to the Market Place”**
14–15 October 2019 Robert Damrauer Lectureship / University of Colorado
 Denver / CO
1072. *Public Lecture* : **“Taking Cyclodextrin Metal–Organic Frameworks from the Research Laboratory to the Market Place”**
Departmental Seminar : **“The Growing Impact of the Mechanical Bond on Polymer and Materials Sciences”**
16–18 October 2019 2019 Midwest Regional ACS Meeting / 2019 Watkins Professorship
 Wichita / KS
1073. *Plenary Lecture* : **“The Growing Impact of the Mechanical Bond on Polymer and Materials Sciences”**
29–31 October 2019 Dodge Lectureship : Department of Chemical & Environmental
 Engineering
 Yale University / New Haven / CT
1074. *Named Lectureship* : **“The Growing Impact of the Mechanical Bond on Polymer and Materials Sciences”**
12–14 November 2019 New Directions for Nanoporous Materials / Hotel Jaadschloss
 Niederwald / Germany
1075. *Invited Lecture* : **“Taking Cyclodextrin Metal–Organic Frameworks from the Research Laboratory to the Market Place”**
16–19 November 2019 Hong Kong University / Hong Kong
 (All the planned events cancelled because of unrest in Hong Kong)
1076. **21–22 November 2019** Visit to ICAB and Workshop on Molecular Rotors
 Institute of Chemistry and Biochemistry / Czech Academy of Sciences
 Prague / Czech Republic
1077. *ICAB Invited Lecture*: **“Taking Cyclodextrin Metal–Organic Frameworks from the Research Laboratory to the Market Place”**
Workshop Lecture : **“Chemically and Electrically Driven Pumps and Motors”**
29 November 2019 Conference Promoting New Chemistry
 Beijing Institute of Technology / Beijing / China
1078. *Invited Lecture* : **“Chemically and Electrically Driven Pumps and Motors”**
1–3 December 2019 20th International Symposium of the Research Institute for Electronic
 Science
 Hokkaido University / Sapporo / Japan
1079. *Plenary Lecture* : **“Chemically and Electrically Driven Pumps and Motors”**
5 December 2019 Chemistry Department Lecture / National Chiao-Tung University
 Taiwan
1080. *Lecture* : **“My Journey to Stockholm”**
6 December 2019 University Lecture / National Taiwan University / Taipei / Taiwan
1081. *Public Lecture* : **“My Journey to Stockholm”**
18 December 2019 Royal Australian Institute (RACI) / Biannual Inorganic Division
 Meeting
 Wollongong / Australia
1082. *Plenary Lecture* : **“Taking Cyclodextrin Metal–Organic Frameworks from the Research Laboratory to the Market Place”**
31 January 2020 Torkil Holm Symposium 2020
 Copenhagen / Denmark
- Invited Lecture* : **“Artificial Pumps and their Potential Uses”**

NB: Numerous talks were presented online since the start of the Coronavirus Pandemic in March 2020

1083. **1 July 2020** NANO KOREA 2020
Seoul / Korea
Virtual Presentation : “**Nanopumps and Nanomotors**”
1084. **20 July 2020** CSSM
University of Pennsylvania / Philadelphia / PA
Virtual Presentation : “**Gold and Precious Metal Extraction Based on Supramolecular Chemistry**”
1085. **17 September 2020** Zhongguancun Forum
China’s Silicon Valley
Virtual Opening Message : “**Innovation Driving Change**”
Virtual Keynote Speech : “**Artificial Nanopumps**”
1086. **29 September 2020** School of Chemical and Biological Engineering
Seoul National University / Korea
Virtual Seminar : “**Artificial Nanopumps**”
1087. **30 October 2020** World Laureates Association Forum
Shanghai / China
Virtual Presentation : “**Artificial Nanopumps**”

COMMUNICATIONS, PAPERS AND REVIEWS

1. The analytical importance of the methoxy content of Acacia gum exudates (D.M.W. Anderson, G.M. Cree, M.A. Herbich, K.A. Karamalla, J.F. Stoddart), *Talanta* **1964**, *11*, 1559–1560.
2. An infrared method for the determination of small amounts of acetaldehyde in aqueous solution (D.M.W. Anderson, J.F. Stoddart) in Proceedings of S.A.C. Symposium, Nottingham, ed. P.W. Shallis (Heffer and Sons, Cambridge) 1965, 232–238.
3. The use of Biogel-P in the gel filtration of polysaccharides (D.M.W. Anderson, I.C.M. Dea, S. Rahman, J.F. Stoddart), *Chem. Commun.* **1965**, 145–146. **[28]**
4. Some observations on molecular weight estimations by molecular-sieve chromatography (D.M.W. Anderson, J.F. Stoddart), *Anal. Chim. Acta* **1966**, *34*, 401–406. **[55]**
5. The use of molecular-sieve chromatography in studies on Acacia senegal gum (gum arabic) (D.M.W. Anderson, J.F. Stoddart), *Carbohydr. Res.* **1966**, *2*, 104–114.
6. Some structural features of *Acacia senegal* gum (gum arabic) (D.M.W. Anderson, Sir Edmund Hirst, J.F. Stoddart), *J. Chem. Soc. (C)* **1966**, 1959–1966. **[63]**
7. Theories of molecular-sieve chromatography (D.M.W. Anderson, J.F. Stoddart), *Lab. Practice* **1967**, *16*, 841–846.
8. Some structural features of *Acacia arabica* gum (D.M.W. Anderson, Sir Edmund Hirst, J.F. Stoddart), *J. Chem. Soc. (C)* **1967**, 1476–1486. **[40]**
9. Analytical Chemistry (D.M.W. Anderson, T.B. Pierce, J.F. Stoddart, J.D. Wilson), *Ann. Reports Chem. Soc.* **1967**, *63*, 657–687. **[0]**
10. Isolation of two arabinoses from *Acacia nilotica* gum (R.C. Chalk, J.K.N. Jones, J.F. Stoddart, W.A. Szarek), *Canad. J. Chem.* **1968**, *46*, 2311–2313. **[5]**
11. Medium heterocyclic rings from carbohydrate precursors (J.F. Stoddart, W.A. Szarek), Abstracts of 156th Amer. Chem. Soc. Mtg., Atlantic City, September 1968, CARB 28; *Canad. J. Chem.* **1968**, *46*, 3061–3069. **[20]**
12. Some structural features of *Citrus limonia* gum (lemon gum) (J.K.N. Jones, J.F. Stoddart), *Carbohydr. Res.* **1968**, *8*, 29–42. **[21]**
13. Some structural features of the mucilage from the bark of *Ulmus fulva* (slippery elm mucilage) (R.J. Beveridge, J.K.N. Jones, J.F. Stoddart, W.A. Szarek), *Carbohydr. Res.* **1969**, *9*, 429–439. **[14]**

14. Conformational studies on 1,3-dioxepans. Part I. 1,3:2,5:4,6-Tri-*O*-methylene-D-mannitol and some related compounds (T.B. Grindley, J.F. Stoddart, W.A. Szarek), *J. Chem. Soc. (B)* **1969**, 172–175. [19]
15. Conformational studies on 1,3-dioxepans. Part II. 1,3:2,5:4,6-Tri-*O*-methylene-D-mannitol and some related compounds (T.B. Grindley, J.F. Stoddart, W.A. Szarek), *J. Chem. Soc. (B)* **1969**, 623–626. [12]
16. Isochronous and anisochronous *O*-methylene protons in 4,5:9,10-bis-cyclo-hexano-1,3,6,8-tetraoxacyclodecanes (T.B. Grindley, J.F. Stoddart, W.A. Szarek), 52nd Chemical Institute of Canada Conference in Montreal, May 1969; *J. Am. Chem. Soc.* **1969**, *91*, 4722–4724. [13]
17. Large heterocyclic rings from carbohydrate precursors (J.K.N. Jones, J.F. Stoddart, W.A. Szarek), *Canad. J. Chem.* **1969**, *47*, 3213–3215. [9]
18. Conformational studies on 1,3-dioxepans. Part III. 1,6-Dideoxy-2,5-*O*-methylene-D-mannitol and some related compounds (J.F. Stoddart, W.A. Szarek), Abstracts of 158th Amer. Chem. Soc. Meeting, New York, 1969, CARB 24; *J. Chem. Soc. (B)* **1971**, 437–442. [18]
19. Stereochemistry (J.F. Stoddart), *Chem. Br.* **1971**, *9*, 250. [2]
20. Stereochemistry at Sheffield (J.F. Stoddart), *Chem. Br.* **1972**, *10*, 216. [1]
21. Stereochemistry (J.F. Stoddart) in MTP International Review of Science, Organic Chemistry, Series One, Volume 1, ed. W.D. Ollis (1973), 1–28.
22. Molecular structure and conformations of carbohydrates (J.F. Stoddart) in MTP International Review of Science, Organic Chemistry, Series One, Volume 7, ed. G.O. Aspinall, 1973, 1–30.
23. Stereochemistry at Sheffield (J.F. Stoddart), *Chem. Br.* **1973**, *11*, 362–363. [1]
24. Conformational behaviour of di-*o*-thymotide and di-*o*-carvocrotide (W.D. Ollis, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1973**, 571–572. [18]
25. The conformational behaviour of 5,6,11,12,17,18-hexahydrotribenzo[*a,e,i*]cyclododecane and its derivatives (D.J. Brickwood, W.D. Ollis, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1973**, 638–640. [8]
26. Synthesis of medium heterocyclic rings from 6-deoxy-D-allose (R.G.S. Ritchie, J.F. Stoddart, W.A. Szarek, D.M. Vyas), *Carbohydr. Res.* **1974**, *32*, 279–285. [8]
27. Stereospecific synthesis of the *trans-anti-trans*- and *trans-syn-trans*-isomers of dicyclohexyl-18-crown-6 (J.F. Stoddart, C.M. Wheatley), *J. Chem. Soc., Chem. Commun.* **1974**, 390–391. [22]
28. The conformational behaviour of some medium-sized ring systems (W.D. Ollis, J.F. Stoddart, I.O. Sutherland), *Tetrahedron* **1974**, *30*, 1903–1921. [60]
29. Synthesis of macrobicyclic polyethers with carbon bridgeheads (A.C. Coxon, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1974**, 537. [14]
30. Constitutional isomerism in bicyclic diacetals and the conformational behaviour of *cis*-fused 1,3,6,8-tetraoxabicyclo[5,3,0]decanes (I.J. Burden, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1974**, 863–864. [7]
31. Configurational equilibria in 2,4-disubstituted- γ -butyrolactones (S.A.M.T. Hussain, W.D. Ollis, C. Smith, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1974**, 873–874. [2]
32. Conformational studies on aza and thia derivatives of 12,13-dihydro-11*H*-dibenzo[*a,e*]cyclononene (W.D. Ollis, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1974**, *13*, 727–729. [3]
33. Conformational studies on aza and thia derivatives of 6,11,12,13-tetrahydro-5*H*-dibenzo[*a,f*]cyclononene and 5,6,7,12,13,14-hexahydrodibenzo[*a,f*]cyclodecene (W.D. Ollis, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1974**, *13*, 730–731. [3]
34. Conformational studies on oxa, thia, and aza derivatives of 7,8,13,14-tetrahydro-benzo[1,2]cyclonona[5,6,7-*de*]naphthalene and 8*H*,15*H*-7,16-dioxacyclodeca-[1,2,3-*de*:6,7,8-*d'e*]dinaphthalene (D.J. Brickwood, W.D. Ollis, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1974**, *13*, 731–732. [2]
35. The conformational behaviour of 6*H*,12*H*,18*H*-5,11,17-trithiatribenzo[*a,e,i*]cyclododecene (W.D. Ollis, M. Nogradi, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1975**, *14*, 168–169. [9]
36. The synthesis and conformational behaviour of *N,N,N'*-trimethyltrianthranilide (W.D. Ollis, J.A. Price, J.S. Stephanatou, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1975**, *14*, 169. [18]

37. Isomerism in bicyclic diacetals. Part I. 1,3:2,4- and 1,4:2,3-di-*O*-methylene-erythritol (I.J. Burden, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1975**, 666–674. [24]
38. Isomerism in bicyclic diacetals. Part II. Bicyclic methylene diacetals in the *galacto*, *arabino*, and *ribo* series (I.J. Burden, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1975**, 675–682. [22]
39. The stereochemistry of 2,4- and 2,3-disubstituted- γ -butyrolactones (S.A.M.T. Hussain, W.D. Ollis, C. Smith, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1975**, 1480–1492. [100]
40. Synthesis of configurationally chiral cryptands and cryptates from carbohydrate precursors (W.D. Curtis, G.H. Jones, D.A. Laidler, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1975**, 833–835. [53]
41. Chiral recognition by configurationally chiral cryptands (W.D. Curtis, G.H. Jones, D.A. Laidler, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1975**, 835–837. [48]
42. Synthesis of a [2]cryptand with carbon bridgeheads (A.C. Coxon, J.F. Stoddart), *Carbohydr. Res.* **1975**, *44*, C1–C4. [11]
43. Stereochemistry in Sheffield (J.F. Stoddart), *Chem. Br.* **1975**, *13*, 369.
44. The use of symmetry and carbohydrates in the design of cryptands (W.D. Curtis, D.A. Laidler, J.F. Stoddart), Abstracts of Centennial Amer. Chem. Soc. Mtg., New York, April 1976, CARB 54.
45. The isolation of conformational diastereoisomers of *N,N',N''*-tribenzyltrianthranilide (W.D. Ollis, J.S. Stephanatou, J.F. Stoddart, A.G. Ferrige), *Angew. Chem., Int. Ed. Engl.* **1976**, *15*, 223–224. [16]
46. The conformational behaviour of 5,6,7,12-tetrahydrodibenzo[*a,d*]cyclooctene (F.E. Elhadi, W.D. Ollis, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1976**, *15*, 224–225. [14]
47. Conformational behaviour of medium-sized rings. Part III. Heterocyclic analogues of 12,13-dihydro-11*H*-dibenzo[*a,e*]cyclononene, 6,11,12,13-tetrahydro-5*H*-dibenzo[*a,e*]cyclononene, and 5,6,7,12,13,14-hexahydrodibenzo[*a,f*]cyclodecene (W.D. Ollis, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1976**, 926–937. [21]
48. Enantiomeric differentiation by chiral macrocyclic polyethers derived from D-mannitol and binaphthol (W.D. Curtis, R.M. King, J.F. Stoddart, G.H. Jones), *J. Chem. Soc., Chem. Commun.* **1976**, 284–285. [28]
49. Chiral crowns incorporating pyridyl units and tertiary amine functions (D.A. Laidler, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1976**, 979–980. [42]
50. Conformational studies on twelve-membered heterocycles. Crystal structure of 5,18-dimethyl-5,18-diazatribenzo[*a,e,i*]-cyclododecene-6,17(5*H*,18*H*)dione (W.D. Ollis, J.S. Stephanatou, J.F. Stoddart, A. Quick, D. Rogers, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1976**, *15*, 757–759. [3]
51. The *trans,anti,trans*- and *trans,syn,trans*- isomers of dicyclohexyl-18-crown-6 and their complexes (I.J. Burden, A.C. Coxon, J.F. Stoddart, C.M. Wheatley), *J. Chem. Soc., Perkin Trans. 1* **1977**, 220–226. [54]
52. Macrobicyclic polyethers with bridgehead carbon atoms (A.C. Coxon, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1977**, 767–785. [58]
53. 1,6,13,25,30-Hexaoxa[6.6.6](1,3,5)cyclophane. Attempted synthesis of a [4]cryptand (W.D. Curtis, J.F. Stoddart, G.H. Jones), *J. Chem. Soc., Perkin Trans. 1* **1977**, 785–788. [25]
54. Chiral asymmetrical crown-ethers (D.A. Laidler, J.F. Stoddart), *Carbohydr. Res.* **1977**, *55*, C1–C4. [32]
55. Stereoselectivity in complexation of primary alkylammonium cations by the diastereotopic faces of chiral asymmetric crowns (D.A. Laidler, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1977**, 481–483. [49]
56. Enantiomeric differentiation by a chiral symmetrical crown derived from L-*iditol* (W.D. Curtis, D.A. Laidler, J.F. Stoddart, J.B. Wolstenholme, G.H. Jones), *Carbohydr. Res.* **1977**, *57*, C17–C22. [9]
57. To enzyme analogues by lock and key chemistry with crown compounds. Part 1. Enantiomeric differentiation by configurationally chiral cryptands synthesised from L-tartaric acid and D-mannitol (W.D. Curtis, D.A. Laidler, J.F. Stoddart, G.H. Jones), *J. Chem. Soc., Perkin Trans. 1* **1977**, 1756–1770. [96]
58. The complexation of primary alkylammonium salts and secondary dialkylammonium salts by *N,N*-dimethyl-1,7-diaza-4,10-dioxacyclodecane (J.C. Metcalfe, J.F. Stoddart, G.H. Jones) *J. Am. Chem. Soc.* **1977**, *99*, 8317–8319. [48]
59. Complexes of primary alkylammonium salts and secondary dialkylammonium salts with diazaparacyclophanes (H.F. Beckford, R.M. King, J.F. Stoddart, R.F. Newton), *Tetrahedron Lett.* **1978**, 171–174. [22]

60. Conformational behaviour of medium-sized rings. Part 4. Heterocyclic analogues of 7,8,13,14-tetrahydrobenzo[6,7]cyclonona[1,2,3-*de*]naphthalene and 7,8,15,16-tetrahydrocyclodeca[1,2,3-*de*:6,7,8-*d'e*]dinaphthalene (D.J. Brickwood, W.D. Ollis, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1978**, 1385–1392. **[7]**
61. Conformational behaviour of medium-sized rings. Part 5. Transannular reactions of (16*Z*)-8,9-dihydro-8-methyl-17*H*-dinaphth[1,8-*cd*:1',8'-*hi*]azacycloundecine and (12*Z*)-6,7-dihydro-6-methyl-5*H*-benz[*cg*]azonine. Two examples of "reverse Hofmann eliminations" (D.J. Brickwood, A.M. Hassan, W.D. Ollis, J.S. Stephanatou, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1978**, 1393–1398. **[12]**
62. Conformational behaviour of medium-sized rings. Part 6. 5,6,11,12,17,18-Hexahydrotribenzo[*a,e,i*]cyclododecene and its 2,3,8,9,14,15- and 1,4,7,10,13,16-hexamethyl derivatives. 2,3,8,9- and 1,4,7,10-Tetramethyl-5,6,11,12-tetrahydrodibenzo[*a,e*]cyclooctene (D.J. Brickwood, W.D. Ollis, J.S. Stephanatou, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1978**, 1398–1414. **[33]**
63. Conformational behaviour of medium-sized rings. Part 7. 5,6,7,12-Tetrahydrodibenzo[*a,d*]cyclooctene (F.E. Elhadi, W.D. Ollis, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1978**, 1415–1421. **[7]**
64. Conformational behaviour of medium-sized rings. Part 8. 6*H*,12*H*,18*H*-Tribenzo[*b,f,i*][1,5,9]-trithiacyclododecin and its 5,5,11,11,17,17-hexaoxide (W.D. Ollis, J.S. Stephanatou, J.F. Stoddart, M. Nogradi), *J. Chem. Soc., Perkin Trans. 1* **1978**, 1421–1428. **[11]**
65. On the stereochemistry of noncovalent interactions in organic and metal cationic complexes (A.C. Coxon, D.A. Laidler, R.B. Pettman, J.F. Stoddart), *J. Am. Chem. Soc.* **1978**, *100*, 8260–8262. **[53]**
66. The complexing properties of chiral crown ethers incorporating 1,3:4,6-di-*O*-methylene-*D*-mannitol residues. A secondary dipole-induced dipole interaction (D.A. Laidler, J.F. Stoddart), *Tetrahedron Lett.* **1979**, 453–456. **[26]**
67. Complexation selectivity by chiral asymmetric crowns incorporating the 4,6-*O*-benzylidene derivatives of methyl- α -*D*-glucopyranoside and methyl- α -*D*-galacto-pyranoside. A secondary anomeric effect (R.B. Pettman J.F. Stoddart), *Tetrahedron Lett.* **1979**, 457–460. **[19]**
68. Chiral asymmetric crowns incorporating the 4,6-*O*-benzylidene derivatives of methyl- α -*D*-mannopyranoside and methyl- α -*D*-altropyranoside. The influence of stereochemistry upon complexation of organic cations (R.B. Pettman, J.F. Stoddart), *Tetrahedron Lett.* **1979**, 461–464. **[21]**
69. Chiral asymmetric crowns incorporating the 4,6-*O*-benzylidene derivatives of methyl- α -*D*-glucopyranoside and methyl- α -*D*-galactopyranoside. A configurational impediment to complexation of organic cations by 18-crown-6 derivatives (D.A. Laidler, J.F. Stoddart, J.B. Wolstenholme), *Tetrahedron Lett.* **1979**, 465–468. **[30]**
70. Nomenclature and stereochemistry (J.F. Stoddart) in Barton and Ollis's *Comprehensive Organic Chemistry*, Vol. 1 (ed., J.F. Stoddart), Pergamon Press, Oxford, 1979, Part 1, pp. 3–33.
71. The complexing properties of a chiral 18-crown-6 derivative incorporating a 2,5-anhydro-*D*-mannitol residue. A constitutional and stereochemical means of enhancing complexation (J.A. Haslegrave, J.F. Stoddart, D.J. Thompson), *Tetrahedron Lett.* **1979**, 2279–2282. **[17]**
72. The synthesis of a chiral receptor molecule containing three carbohydrate residues within a 20-crown-6 constitution (D.G. Andrews, P.R. Ashton, D.A. Laidler, J.F. Stoddart, J.B. Wolstenholme), *Tetrahedron Lett.* **1979**, 2629–2632. **[12]**
73. From carbohydrates to enzyme analogues (Tate and Lyle Lecture) (J.F. Stoddart), *Chem. Soc. Rev.* **1979**, *8*, 85–142. **[211]**
74. Lock and key chemistry with crown compounds (A.C. Coxon, W.D. Curtis, D.A. Laidler, J.F. Stoddart) in *Asymmetry in Carbohydrates* (ed. R.E. Harmon), Marcel Dekker, New York, 1979, pp. 167–197; *J. Carbohyd. Nucl.* **1979**, *6*, 167–197. **[6]**
75. The design and development of enzyme analogues (J.F. Stoddart) in *Enzymic and Non-Enzymic Catalysis* (ed. P. Dunnill, A. Wiseman, N. Blakebrough), Ellis Horwood, Chichester, 1980, pp. 84–110.
76. The synthesis and complexing properties of oxo-12-crown-3 and oxo-18-crown-5 (G.D. Beresford, J.F. Stoddart), *Tetrahedron Lett.* **1980**, 867–870. **[18]**

77. Holes, handedness, handles, and hopes - meeting the requirements of primary binding, chirality, secondary binding, and functionality in enzyme analogues (J.F. Stoddart) in Proceedings of the Summer School on Bioenergetics and Thermodynamics: Model systems, 21 May-1 June 1979, Tabiano, Italy (ed. A. Braibanti), Reidel, Dordrecht, Holland, 1980, pp. 43–62.
78. High resolution ^{13}C NMR spectroscopy and X-ray crystallography of complexes formed by *N,N'*-dimethyl-1,7-diaza-4,10-dioxacyclododecane (J.C. Metcalfe, J.F. Stoddart, G. Jones, W.E. Hull, A. Atkinson, I.S. Kerr, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1980**, 540–543. [17]
79. Old crowns and new chemistry: Molecular receptors and intermolecular conformational analysis (J.F. Stoddart), Lectures in Heterocyclic Chemistry, Vol. 5 (ed. R.N. Castle, S.W. Schneller), **1980**, S-47–S-60.
80. Enzymes to order? (J.F. Stoddart) in Spectrum (ed. M.J. Quan) published by The Central Office of Information, London, (1980) No. 170, pp. 5–7.
81. Dithiosalicylides and trithiosalicylides. Their conformational behaviour in solution (G.B. Guise, W.D. Ollis, J.A. Peacock, J.S. Stephanatou, J.F. Stoddart), *Tetrahedron Lett.* **1980**, 4203–4206. [9]
82. Synthesis and conformational behaviour of tetraanthranilides (A. Hoorfar, W.D. Ollis, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1980**, 4211–4214. [5]
83. Synthesis and conformational behaviour of 1,9,17-triaza[2.2.2]metacyclophane-2,10,18-trione derivatives (F.E. Elhadi, W.D. Ollis, J.F. Stoddart, D.J. Williams, K.A. Woode), *Tetrahedron Lett.* **1980**, 4215–4218. [13]
84. Synthesis of crown ethers and analogs (D.A. Laidler, J.F. Stoddart) in the Chemistry of the Functional Groups. Supplement E1: The Chemistry of Ethers, Crown Ethers, Hydroxyl Groups and Their Sulfur Analogs (ed. S. Patai), Wiley-Interscience, 1981, pp. 1–57.
85. Synthetic chiral receptor molecules from natural products (J.F. Stoddart) in Progress in Macrocyclic Chemistry (ed. R.M. Izatt, J.J. Christensen), Vol. 2, Wiley-Interscience, 1981, pp. 173–250.
86. Conformational behaviour and inclusion compound forming properties of 5,18-disubstituted derivatives of 5,11,12,18-tetrahydrotribenzo[*b,f,j*][1,4]-diazacyclo-dodecine-6,17-dione (W.D. Ollis, J.S. Stephanatou, J.F. Stoddart, G. Unal, D.J. Williams), *Tetrahedron Lett.* **1981**, 2225–2228. [3]
87. Synthesis and conformational behaviour of tri-3-methyltrianthranilides. A new example of spontaneous resolution and inclusion compound formation on crystallisation (S.J. Edge, W.D. Ollis, J.S. Stephanatou, J.F. Stoddart, D.J. Williams, K.A. Woode), *Tetrahedron Lett.* **1981**, 2229–2232. [12]
88. The solid state and solution conformational behaviour of a chiral 30-crown-10 derivative synthesised from 1,4:3,6-dianhydro-D-mannitol (J.C. Metcalfe, J.F. Stoddart, G. Jones, T.H. Crawshaw, A. Quick, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1981**, 430–432. [14]
89. The complexing properties of a bisdianhydro-D-mannitolo-30-crown-10 derivative in solution and in the solid state (J.C. Metcalfe, J.F. Stoddart, G. Jones, T.H. Crawshaw, E. Gavuzzo, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1981**, 432–434. [15]
90. Second-sphere co-ordination of neutral and cationic transition metal complexes by crown ethers (H.M. Colquhoun, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1981**, 612–613. [31]
91. The binding of neutral and platinum complexes by crown ethers. X-Ray crystal structures of [*trans*-PtCl(PMe₃)NH₃·dibenzo-18-crown-6] and [{*trans*-PtCl₂(PMe₃)NH₃]₂·18-crown-6] (H.M. Colquhoun, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1981**, 847–849. [42]
92. Isolation and X-ray crystal structure of [Cu(NH₃)₄H₂O·18-crown-6]_n²⁺[PF₆]_{2n}. A linear face-to-face hydrogen bonded chain copolymer (H.M. Colquhoun, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1981**, 849–850. [36]
93. Formation and X-ray crystal structure of [Pt(H₂NCH₂CH₂NH₂)₂·18-crown-6]_n²⁺[PF₆]_{2n}. A hydrogen bonded stepped-chair copolymer (H.M. Colquhoun, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1981**, 851–852. [26]
94. Second-sphere co-ordination of a cationic platinum complex by crown ethers. The X-ray crystal structure of [Pt(bipy)(NH₃)₂·dibenzo-30-crown-10]₂⁺[PF₆]₂·0.6H₂O (H.M. Colquhoun, J.F. Stoddart, J.B. Wolstenholme, D.J. Williams, R. Zarzycki), *Angew. Chem., Int. Ed. Engl.* **1981**, 20, 1051–1053 (featured in *Nachr. Chem. Tech. Lab.* **1981**, 29, 684. [80])

95. Coronation of ligating acetonitrile by 18-crown-6. The X-ray crystal structure of $\{[trans-Ir(CO)(CH_3CN)(PPh_3)_2]^+ \cdot 18\text{-crown-6}\} [PF_6]_2^- \cdot 2CH_2Cl_2$ (H.M. Colquhoun, J.F. Stoddart, D.J. Williams), *J. Am. Chem. Soc.* **1982**, 1426–1428. [26]
96. Stereochemical principles in the design and function of synthetic molecular receptors (T.H. Crawshaw, D.A. Laidler, J.C. Metcalfe, R.B. Pettman, J.F. Stoddart, J.B. Wolstenholme) in The Proceedings of the 26th OHOLO Biological Conference on Biomimetic Chemistry and Transition State Analogs as Approaches to Understanding Enzyme Catalysis (ed. B.S. Green, Y. Ashani, D. Chipman), Elsevier, Amsterdam, 1982, 49–65.
97. Stereoselective epoxidation of divinylcarbinol. A synthetic approach to the pentitols (D. Holland, J.F. Stoddart), *Carbohydr. Res.* **1982**, 100, 207–220. [11]
98. Conformational behaviour of medium-sized rings. Part 9. Disalicylides and Trisalicylides (W.D. Ollis, J.S. Stephanatou, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1982**, 1629–1636. [9]
99. Conformational behaviour of medium-sized rings. Part 10. Dithiosalicylides and Trithiosalicylides (G.B. Guise, W.D. Ollis, J.A. Peacock, J.S. Stephanatou, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1982**, 1637–1648. [9]
100. Conformational behaviour of medium sized rings. Part 11. Dianthranilides and Trianthranilides. (A. Hoorfar, W.D. Ollis, J.A. Price, J.S. Stephanatou, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1982**, 1649–1699. [27]
101. Conformational behaviour of medium-sized rings. Part 12. Tri-3-methyltrianthranilides (S.J. Edge, W.D. Ollis, J.S. Stephanatou, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1982**, 1701–1714. [11]
102. Conformational behaviour of medium-sized rings. Part 13. Derivatives of 5,11,12,18-tetrahydrotribenzo [*b,f,j*][1,4]-diazacyclododecine-6,17-dione (W.D. Ollis, J.S. Stephanatou, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1982**, 1715–1720. [7]
103. Conformational behaviour of medium-sized rings. Part 14. Tetraanthranilides (A. Hoorfar, W.D. Ollis, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1982**, 1721–1726. [8]
104. Conformational behaviour of medium-sized rings. Part 15. Derivatives of 1,9,17-triaza[2.2.2]metacyclophane-2,10,18-triones (F.E. Elhadi, W.D. Ollis, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1982**, 1727–1732. [8]
105. The X-ray crystal structure of the aquo complex of 1,3:1',3':4,6:4',6'-tetra-*O*-methylene-2,2':5,5'-bis-*O*-oxydiethylenedi-*D*-mannitol (S.E. Fuller, D.A. Laidler, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1982**, 23, 1835–1836. [8]
106. A comparison between the solid state structures and solution behaviour of molecular complexes formed between primary alkylammonium salts and chiral crown ethers incorporating 1,3:4,6-diacetals of *D*-mannitol (S.E. Fuller, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1982**, 1093–1096. [7]
107. 1,3:4,6-Di-*O*-benzylidene-2,5-*O*-oxypentaethylene-*D*-mannitol and the solution state structure of its molecular complex with the benzylammonium cation. A variable temperature 1H NMR spectroscopic investigation (S.E. Fuller, B.E. Mann, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1982**, 1096–1097. [13]
108. A stereoselective synthesis of xylitol (D.H. Holland, J.F. Stoddart), *Tetrahedron Lett.* **1982**, 23, 5367–5370. [4]
109. Crown ethers as second sphere ligands. The interaction of transition metal amines with 18-crown-6 and dibenzo-18-crown-6 (H.M. Colquhoun, D.F. Lewis, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Dalton Trans.* **1983**, 607–613. [88]
110. Regioselective and stereoselective methods for the synthesis of the pentitols (D. Holland, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 1* **1983**, 1553–1571. [18]
111. Complex formation between dibenzo-3n-crown-n ethers and the diquat dication (H.M. Colquhoun, E.P. Goodings, J.M. Maud, J.F. Stoddart, D.J. Williams, J.B. Wolstenholme), *J. Chem. Soc., Chem. Commun.* **1983**, 1140–1142. [60]
112. Crown ethers as enzyme models (J.F. Stoddart), in *The Chemistry of Enzyme Action* (ed. M.I. Page), Elsevier, Amsterdam, 1984, 529–561.

113. Crystal and supramolecular structures of $\text{BF}_3\text{NH}_3\cdot 18\text{-crown-6}$ and $\text{BH}_3\text{NH}_3\cdot 18\text{-crown-6}$ (H.M. Colquhoun, G. Jones, J.M. Maud, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Dalton Trans.* **1984**, 63–66. [39]
114. Second sphere coordination of cationic rhodium complexes by dibenzo-3n-crown-n ethers (H.M. Colquhoun, S.M. Doughty, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1984**, *23*, 235–236. [37]
115. The isolation and X-ray crystal structure of a complex between sodium hexafluorophosphate and dibenzo-36-crown-12 (J.M. Maud, J.F. Stoddart, H.M. Colquhoun, D.J. Williams), *Polyhedron* **1984**, *3*, 675–679. [15]
116. The trianthranilides: A new class of organic hosts (W.D. Ollis, J.F. Stoddart), in *Inclusion Compounds, Volume 2, Structural Aspects of Inclusion Compounds formed by Organic Host Lattices* (eds. J.L. Atwood, J.E.D. Davies, D.D. Macnicol), Academic Press, London, 1984, 169–205.
117. Stereospecific synthesis of macrobicyclic polyethers with carbon bridgeheads from chiral glycerol derivatives (B.L. Allwood, S.E. Fuller, P.C.Y.K. Ning, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1984**, 1356–1360. [31]
118. Enantioselective reductions of aromatic ketones with ammonia-borane complexes of chiral tetraphenyl-18-crown-6 derivatives (B.L. Allwood, H. Shahriari-Zavareh, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1984**, 1461–1464. [30]
119. Macrobicyclic polyethers as V-shaped hosts for cis-diammine-transition metal complexes (D.R. Alston, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1984**, *23*, 821–823. [27]
120. Crown ether complexes of phosphonium salts - The X-ray structure analysis of $[(\text{Ph}_3\text{PMe})_2][18\text{-crown-6}][\text{PF}_6]_2$ (B.L. Allwood, H.M. Colquhoun, J. Crosby, D.A. Pears, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1984**, *23*, 824–825. [11]
121. Host-guest chemistry (J.F. Stoddart), *RSC Annual Reports B 1983*, (eds. A.G. Davies, P.J. Garratt), 1984, 353–378.
122. Crown ether complexes of sulphonium salts – The X-ray crystal structures of $[\text{PhCOCH}_2\text{SMe}_2\cdot 18\text{C6}]_n[\text{PF}_6]_n$ and $[(\text{PhCOPhCHSMe}_2)_2\cdot 18\text{C6}][\text{PF}_6]_2$ (B.L. Allwood, J. Crosby, D.A. Pears, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1984**, *23*, 977–979. [12]
123. A 1:1 complex between 1,4,7,10,13,16-hexaoxacyclooctadecane (18-crown-6) and phenacylammonium hexafluorophosphate (J.M. Maud, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1985**, *C41*, 137–140. [11]
124. Diamminebis(1,5-cyclooctadiene) (\square -1,4,10,13)-tetraoxa-7,16-diazacycloocta-decane-N7,N16-dirhodium bis-(hexafluorophosphate). An example of simultaneous first and second sphere coordination (H.M. Colquhoun, S.M. Doughty, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1985**, *24*, 135–136. [20]
125. Complexation of diquat by a regiospecifically-synthesised macrobicyclic receptor molecule (B.L. Allwood, F.H. Kohnke, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1985**, 311–314. [49]
126. An investigation of the kinetic and thermodynamic stability of a tribenzomacro-bicyclic polyether complex with diquat in acetone solution (F.H. Kohnke, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1985**, 314–317. [22]
127. Complexation of diquat by disubstituted dibenzo-30-crown-10 derivatives (F.H. Kohnke, J.F. Stoddart, B.L. Allwood, D.J. Williams), *Tetrahedron Lett.* **1985**, *26*, 1681–1684. [27]
128. An investigation by high resolution ^1H NMR spectroscopy of the kinetic stabilities of solution complexes of diquat with disubstituted dibenzo-30-crown-10 derivatives (F.H. Kohnke, J.F. Stoddart), *Tetrahedron Lett.* **1985**, *26*, 1685–1688. [16]
129. The isolation and X-ray structure of an adduct formed between 18-crown-6 and cisplatin (D.R. Alston, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1985**, 532–533. [30]
130. Second sphere coordination of $[\text{Pt}(\text{bipy})(\text{NH}_3)_2]^{2+}$ by dibenzo-crown ethers. Solution spectroscopic studies of the crystal and molecular structures of $[\text{Pt}(\text{bipy})(\text{NH}_3)_2\cdot \text{dibenzo-36-crown-12}][\text{PF}_6]_2\cdot 0.6\text{H}_2\text{O}$ and $[\text{Pt}(\text{bipy})(\text{NH}_3)_2\cdot \text{dibenzo-24-crown-8}][\text{PF}_6]_2$ (H.M. Colquhoun, S.M. Doughty, J.M. Maud, J.F. Stoddart, D.J. Williams, J.B. Wolstenholme), *Israel J. Chem.* **1985**, *25*, 15–26. [31]

131. The complexation of the diquat dication by dibenzo-3*n*-crown-*n* ethers (H.M. Colquhoun, E.P. Goodings, J.M. Maud, J.F. Stoddart, J.B. Wolstenholme, D.J. Williams), *J. Chem. Soc., Perkin Trans. II* **1985**, 607–624. **[117]**
132. The isolation and X-ray crystal structure of a complex between lithium picrate and dibenzo-36-crown-12 (S.M. Doughty, J.F. Stoddart, H.M. Colquhoun, A.M.Z. Slawin, D.J. Williams), *Polyhedron* **1985**, *4*, 567–575. **[22]**
133. Synthesis of an octamethyl-18-crown-6 derivative and the X-ray crystal structure of its 2:1 complex with borane-ammonia (D.R. Alston, J.F. Stoddart, J.B. Wolstenholme, B.L. Allwood, D.J. Williams), *Tetrahedron* **1985**, *41*, 2923–2926. **[18]**
134. The stereospecific synthesis of macrobicyclic and macropolycyclic polyethers from carbohydrate precursors (J.F. Stoddart, S.E. Fuller, S.M. Doughty, P.C.K.Y. Ning, M.K. Williams, D.J. Williams, B.L. Allwood, A.M.Z. Slawin, and H.M. Colquhoun), *Pure Appl. Chem., Organic Synthesis: an Interdisciplinary Challenge*. Eds. J. Streith, H. Prinzbach, G. Schill. Blackwell Scientific, Oxford, 1985, 295–305.
135. The supramolecular structures and reactivities of some complexes of chiral crown ethers with borane-ammonia (H. Shahriari-Zavareh, J.F. Stoddart, M.K. Williams, B.L. Allwood, D.J. Williams), *J. Incl. Phenom.* **1985**, *3*, 355–377. **[18]**
136. A macrobicyclic receptor molecule for the diquat dication (B.L. Allwood, F.H. Kohnke, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1985**, *24*, 581–584. **[33]**
137. Controversial glycosaminoglycan conformations (D.A. Rees, E.R. Morris, J.F. Stoddart, E.S. Stevens), *Nature* **1985**, *17*, 480. **[31]**
138. Dynamic ¹H NMR spectroscopic studies of complexes formed between substituted ammonium cations and two chiral diazacrown ethers incorporating asymmetric carbohydrate units (M. Pietraszkiewicz, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. II* **1985**, 1559–1562. **[12]**
139. Cyclodextrins as second-sphere ligands for transition metal complexes – The X-ray crystal structure of [Rh(cod)(NH₃)₂:α-cyclodextrin][PF₆][H₂O] (D.R. Alston, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1985**, *24*, 786–787. **[76]**
140. The binding of 1,1-cyclobutanedicarboxylatodiammeplatinum(II) by α-cyclodextrin in aqueous solution (D.R. Alston, T.H. Lilley, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1985**, 1600–1602. **[56]**
141. The X-ray crystal structure of a 1:1 adduct between α-cyclodextrin and 1,1-cyclo-butanedicarboxylatodiammineplatinum(II) (D.R. Alston, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1985**, 1602–1604. **[41]**
142. A 1:1 complex between 1,4,7,10,13,16-hexaoxacyclooctadecane (18-crown-6) and mercury (II) iodide, HgI₂ (D.A. Pears, J.F. Stoddart, J. Crosby, B.L. Allwood, D.J. Williams), *Acta Crystallogr.* **1986**, *C42*, 51–53. **[31]**
143. The isolation and X-ray structure of a 2:1 complex between picric acid and dibenzo-24-crown-8 (H.M. Colquhoun, S.M. Doughty, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *J. Chem. Soc., Perkin Trans. II* **1986**, 253–257. **[16]**
144. Structure of a chiral monopyrido crown ether, 1,4:1',4':3,6:3',6'-tetra-anhydro-2,2'-O-[pyridine-2,6-diylbis-(methylene)]-5,5'-O-oxidiethylenedi-D-mannitol (T.H. Crawshaw, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1986**, *C42*, 211–214. **[4]**
145. Chemistry beyond the molecule (H.M. Colquhoun, J.F. Stoddart, D.J. Williams), *New Scientist*, 1 May 1986, No 1506, 44–48. **[6]**
146. The meeting season (R.L. Wife, J.F. Stoddart), *Chem. Br.* **1986**, *22*, 474.
147. A 1:2 complex between 1,4,7,10,13,16-hexaoxacyclooctadecane(18-crown-6) and diphenylmethyl-sulphonium tetraiododi-μ-iododimercurate(II) (D.A. Pears, J.F. Stoddart, J. Crosby, B.L. Allwood, D.J. Williams), *Acta Crystallogr.* **1986**, *C42*, 804–806. **[12]**
148. Structure of a macrobicyclic diaza polyether bis-sulphonamide (D.R. Alston, A.P. Bushell, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *Acta Crystallogr.* **1986**, *C42*, 903–905. **[2]**
149. Structure of a chiral bisanisylene crown ether, 1,4:1',4':3,6:3',6'-tetraanhydro-2,2':5,5'-bis-O-[2-methoxy-1,3-phenylenebis(methylene)]di-D-mannitol (T.H. Crawshaw, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1986**, *C42*, 905–908. **[2]**

150. Structure of a chiral macrobicyclic crown ether, 1,4:1',4':3,6:3',6'-tetraanhydro-2,2':5,5'-O-[2,2'-(3,6-dioxaoctane-1,8-diylidioxy)bis-1,3-phenylene-tetrakis-(methylene)di-D-mannitol (T.H. Crawshaw, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1986**, C42, 908–911. [1]
151. Second-sphere coordination – a novel role for molecular receptors (H.M. Colquhoun, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1986**, 25, 487–507. [263]
152. Second-sphere coordination of cationic rhodium complexes $[Rh(L)(NH_3)_2]^+$ by dibenzo-3*n*-crown-*n* ethers [*n* = 6–12; L = 1,5-cyclooctadiene (cod) or norbornadiene (nbd)]. Solution ¹H NMR spectroscopic studies and X-ray crystal structures of $[Rh(cod)(NH_3)_2 \cdot DB21C7][PF_6]$, $[Rh(cod)(NH_3)_2 \cdot DB24C8][PF_6]$, $[Rh(nbd)(NH_3)_2 \cdot DB24C8][PF_6]$, $[Rh(cod)(NH_3)_2 \cdot DB30C10][PF_6]$, and $\{[Rh(cod)(NH_3)_2 \cdot 2DB36C12][PF_6]_2\}$ (H.M. Colquhoun, S.M. Doughty, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *J. Chem. Soc., Dalton Trans.* **1986**, 1639–1652. [45]
153. Crown ethers as Molecular Receptors and Reagents, in "Supermolecules: Biological and Chemical Aspects" (J.F. Stoddart), *Accademia Nazionale dei Lincei* **1987**, 37–39.
154. Chiral crown ethers (J.F. Stoddart), *Top. Stereochem.* **1987**, 17, 207–288. [120]
155. Novel 4,15-polyether analogues of macrocyclic trichothecenes (D.W. Anderson, R.M. Black, D.A. Leigh, J.F. Stoddart), *Tetrahedron Lett.* **1987**, 28, 2653–2656. [6]
156. Novel 3,4- and 8,15-polyether analogues of macrocyclic trichothecenes (D.W. Anderson, R.M. Black, D.A. Leigh, J.F. Stoddart), *Tetrahedron Lett.* **1987**, 28, 2657–2660. [7]
157. The facile conversion of T-2 toxin and neosolaniol into anguidine (D.W. Anderson, R.M. Black, D.A. Leigh, J.F. Stoddart, N.E. Williams), *Tetrahedron Lett.* **1987**, 28, 2661–2664. [5]
158. Second sphere coordination of tetra-ammineplatinum(II) by a macrocyclic crown ether bisamide receptor (D.R. Alston, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams, R. Zarzycki), *Angew. Chem., Int. Ed. Engl.* **1987**, 26, 692–693. [20]
159. Macrobicyclic polyethers as second sphere ligands for tetra-ammineplatinum(II) (D.R. Alston, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams, R. Zarzycki), *Angew. Chem., Int. Ed. Engl.* **1987**, 26, 693–696. [27]
160. A comparison of the receptor stereochemistry in $[Pt(bipy)(NH_3)_2 \cdot \text{dinaphtho-30-crown-10}][PF_6]_2$ and $[Diquat \cdot \text{dinaphtho-30-crown-10}][PF_6]_2$ (bipy = 2,2'-bipyridine) (H.M. Colquhoun, S.M. Doughty, F.H. Kohnke, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams, R. Zarzycki), *J. Chem. Soc., Chem. Commun.* **1987**, 1054–1058. [29]
161. Complexation of paraquat and diquat by a bismetaphenylene-32-crown-10 derivative (B.L. Allwood, H. Shahriari-Zavareh, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1987**, 1058–1061. [121]
162. Complexation of diquat by a bisparaphenylene-34-crown-10 derivative (B.L. Allwood, N. Spencer, H. Shahriari-Zavareh, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1987**, 1061–1064. [65]
163. Complexation of paraquat by a bisparaphenylene-34-crown-10 derivative (B.L. Allwood, N. Spencer, H. Shahriari-Zavareh, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1987**, 1064–1066. [209]
164. Complex formation between bisparaphenylene-(3*n*+4)-crown-*n* ethers and the paraquat and diquat dications (P.R. Ashton, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1987**, 1066–1069. [64]
165. The dependence of the solid state structures of bisparaphenylene-(3*n*+4)-crown-*n* ethers upon macrocyclic ring size (A.M.Z. Slawin, N. Spencer, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1987**, 1070–1072. [50]
166. Stereoselective synthesis of non-carbohydrates from cyclic precursors (F.H. Kohnke, J.F. Stoddart), Abstracts of 194th American Chemical Society National Meeting, New Orleans, 30 Aug–4 Sept 1987, CARB 32.
167. The structural mapping of an unsymmetrical chemically-modified cyclodextrin by high field nuclear magnetic resonance spectroscopy (C.M. Spencer, J.F. Stoddart, R. Zarzycki), *J. Chem. Soc., Perkin Trans. II* **1987**, 1323–1336. [64]

168. Noncovalent bonding interactions between tetraphenylborate anions and paraquat and diquat (G.J. Moody, R.K. Owusu, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, J.D.R. Thomas, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1987**, *26*, 890–892. [48]
169. Molecular belts and collars in the making: A hexaepoxyoctacosahydro-[12]cyclacene derivative (F.H. Kohnke, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1987**, *26*, 892–894. [122]
170. Enzyme models: crown ethers (J.F. Stoddart), RSC Special Publication on Enzyme Mechanisms, Eds. M.I. Page, A. Williams, London, 1987, pp. 35–55.
171. The extramolecular approach to enzyme analogues (J.F. Stoddart), *Biochem. Soc. Trans.* **1987**, *15*, 1188–1191. [18]
172. Complexation of diquat and paraquat by macrocyclic polyethers incorporating two dihydroxynaphthalene residues (P.R. Ashton, E.J.T. Chrystal, J.P. Mathias, K.P. Parry, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1987**, *28*, 6367–6370. [87]
173. Piezoelectric quartz crystal detection of benzene vapour using chemically-modified cyclodextrins (C.S.I. Lai, G.J. Moody, J.D.R. Thomas, D.C. Mulligan, J.F. Stoddart, R. Zarzycki), *J. Chem. Soc. Perkin Trans. II* **1988**, 319–324. [45]
174. Cholesteric phases induced by chiral substituted cyclohexylidenemethanes (P.M.A. Bonaccorsi, D.A. Dunmur, J.F. Stoddart), *New J. Chem.* **1988**, *12*, 83–85. [6]
175. The conception and birth of new receptor chemistry from dibenzo-18-crown-6 (J.F. Stoddart), *Pure Appl. Chem.* **1988**, *60*, 467–472. [54]
176. Diazadibenzo-30-crown-10 derivatives as receptors for diquat (P.L. Anelli, N. Spencer, J.F. Stoddart), *Tetrahedron Lett.* **1988**, *29*, 1569–1572. [16]
177. Solid state structure of the molecular complex between a diazadibenzo-30-crown-10 derivative and diquat (P.L. Anelli, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1988**, *29*, 1573–1574. [9]
178. Solid state structure of a diazadibenzo-30-crown-10 disulphonamide (P.L. Anelli, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1988**, *29*, 1575–1576. [8]
179. Mass spectrometric investigation of adduct formation by methylated cyclodextrins (P.R. Ashton, J.F. Stoddart, R. Zarzycki), *Tetrahedron Lett.* **1988**, *29*, 2103–2106. [38]
180. Methyl rel-(2R,3S,5R,6S)-7-oxabicyclo[2.2.2]heptane 2,3,5,6-tetracarboxylate (F.H. Kohnke, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 736–737. [9]
181. rel-(1R,4S,5S,8R)-1,4:5,8-Diepoxy-1,4,5,8-tetrahydroanthracene: An example of polymorphism (F.H. Kohnke, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 738–740. [16]
182. Methyl-rel-(1R,2R,3S,4S,5S,6S,7R,8R)-1,4:5,8-diepoxy-1,2,3,4,5,6,7,8-octahydro-anthracene-2,3,6,7-tetracarboxylate (F.H. Kohnke, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 740–742. [4]
183. rel-(1R,4S,5R,8S)-1,4:5,8-Diepoxy-1,4,5,8-tetrahydroanthracene (F.H. Kohnke, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 742–745. [13]
184. Second-sphere photochemistry and photophysics: Luminescence of the [Pt(bpy)(NH₃)₂]²⁺-dibenzo[30]crown-10 adduct (R. Ballardini, M.T. Gandolfi, V. Balzani, F.H. Kohnke, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1988**, *27*, 692–694. [29]
185. Structure of the cis-cisoid-cis isomer of 2,3,11,12-tetra-anisyl-18-crown-6: rel-(2R,3S,11R,12S)-2,3,11,12-tetrakis-4-methoxyphenyl-1,4,7,10,13,16-hexaoxacyclooctadecane (B.L. Allwood, J. Crosby, D.A. Pears, H. Shahriari-Zavareh, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 1097–1100. [10]
186. A 1:1 adduct between the cis-cisoid-cis isomer of 2,3,11,12-tetra-anisyl-18-crown-6 and borane ammonia, BH₃NH₃ (B.L. Allwood, J. Crosby, D.A. Pears, H. Shahriari-Zavareh, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 1101–1104. [9]
187. Structure of the cis-transoid-cis isomer of 2,3,11,12-tetra-anisyl-18-crown-6: rel-(2R,3S,11S,12R)-2,3,11,12-tetrakis-4-methoxyphenyl-1,4,7,10,13,16-hexaoxa-cyclooctadecane (B.L. Allwood, J. Crosby, D.A. Pears, H. Shahriari-Zavareh, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 1104–1106. [5]

188. A 1:2 adduct between the cis-transoid-cis isomer of 2,3,11,12-tetra-anisyl-18-crown-6 and borane ammonia, BH_3NH_3 (B.L. Allwood, J. Crosby, D.A. Pears, H. Shahriari-Zavareh, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 1106–1109. [9]
189. Structure of the trans-cisoid-trans isomer of 2,3,11,12-tetra-anisyl-18-crown-6: rel-(2R,3R,11S,12S)-2,3,11,12-tetrakis-4-methoxyphenyl-1,4,7,10,13,16-hexaoxacyclooctadecane (B.L. Allwood, J. Crosby, D.A. Pears, H. Shahriari-Zavareh, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 1109–1111. [5]
190. A 1:2 adduct between the trans-cisoid-trans isomer of 2,3,11,12-tetra-anisyl-18-crown-6 and borane ammonia, BH_3NH_3 (B.L. Allwood, J. Crosby, D.A. Pears, H. Shahriari-Zavareh, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 1112–1115. [9]
191. Structure of the dextrorotatory trans-transoid-trans isomer of 2,3,11,12-tetra-anisyl-18-crown-6: (2R,3R,11R,12R)-2,3,11,12-tetrakis-4-methoxyphenyl-1,4,7,10,13,16-hexaoxacyclooctadecane (B.L. Allwood, J. Crosby, D.A. Pears, H. Shahriari-Zavareh, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 1115–1118. [4]
192. A 1:1 adduct between the trans-transoid-trans isomer of 2,3,11,12-tetra-anisyl-18-crown-6 with the (*RRRR*)-configuration and borane ammonia, BH_3NH_3 (B.L. Allwood, J. Crosby, D.A. Pears, H. Shahriari-Zavareh, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 1118–1121. [7]
193. The complexing properties of some unnatural and natural macrocyclic trichothecenes (D.W. Anderson, P.R. Ashton, R.M. Black, D.A. Leigh, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1988**, 904–908. [9]
194. Supramolecular chemistry: Unnatural product synthesis (J.F. Stoddart), *Nature* **1988**, *334*, 10–11. [38]
195. Ion-sensing studies on two disubstituted diphenyl ethers of tetraethyleneglycol (G.J. Moody, Bahruddin, B. Saad, J.D.R. Thomas, F.H. Kohnke, J.F. Stoddart), *Analyst* **1988**, *113*, 1295–1298. [18]
196. Towards the making of [12]collarene (P.R. Ashton, N.S. Isaacs, F.H. Kohnke, A.M.Z. Slawin, C.M. Spencer, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1988**, *27*, 966–969. [113]
197. Ammonium chloride complexes of 18-crown-6 (D.A. Pears, J.F. Stoddart, M.E. Fakley, B.L. Allwood, D.J. Williams), *Acta Crystallogr.* **1988**, *C44*, 1426–1430. [35]
198. Stereoelectronically-programmed molecular 'LEGO' sets (P. Ellwood, J.P. Mathias, J.F. Stoddart, F.H. Kohnke), *Bull. Soc. Chem. Belg.* **1988**, *97*, 669–678. [27]
199. Second sphere coordination adducts of transition metal phosphines with β -cyclodextrin and its methylated derivative (D.R. Alston, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams, R. Zarzycki), *Angew. Chem., Int. Ed. Engl.* **1988**, *27*, 1184–1185. [40]
200. Cyclodextrins as second sphere ligands for transition metal complexes (J.F. Stoddart, R. Zarzycki), *Rec. Trav. Chim. Pays-Bas* **1988**, *107*, 515–528. [90]
201. Bisparaquat(1,4)cyclophane. A tetracationic multipurpose receptor (B. Odell, M.V. Reddington, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1988**, *27*, 1547–1550. [406]
202. Isostructural alternately-charged receptor stacks. The inclusion complexes of hydroquinol and catechol dimethyl ethers with bisparaquat(1,4)cyclophane (P.R. Ashton, B. Odell, M.V. Reddington, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1988**, *27*, 1550–1553. [147]
203. Molecular lego (J.F. Stoddart), *Chem. Br.* **1988**, *24*, 1203–1208. [27]
204. Chemically-modified cyclodextrins as second sphere ligands for transition metal complexes (J.F. Stoddart, R. Zarzycki), *Proceedings of the Fourth International Symposium on Cyclodextrins*, Eds. J. Szejtli, O. Huber, Kluwer, Dordrecht, 1988, pp. 197–203.
205. Piezoelectric quartz crystal detection of nitrobenzene using a hexaepoxyoctacosahydro[12]cyclacene derivative (M.A.F. Elmosalamy, G.J. Moody, J.D.R. Thomas, F.H. Kohnke, J.F. Stoddart), *Analytical Proceedings* **1989**, *26*, 12–15.
206. New cyclophane hosts: A hexaoxacyclophane (G.R. Brown, S.S. Chana, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Perkin Trans. 1* **1989**, 211–212. [6]
207. New cyclophane hosts: Polyether-bridged hexaoxacyclophanes (G.R. Bower, G.R. Brown, S.S. Chana, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Perkin Trans. 1* **1989**, 212–213. [8]

208. Chemically-modifying cyclodextrins (D.R. Alston, P. Ellwood, D.C. Mulligan, J.F. Stoddart, R. Zarzycki), Abstracts of 197th American Chemical Society National Meeting, Dallas, 9–14 April, 1989, CARB 3. [0]
209. The making of molecular belts and collars (J.F. Stoddart), *J. Incl. Phenom.* **1989**, *7*, 227–245. [17]
210. The evolution of molecular belts and collars (F.H. Kohnke, J.F. Stoddart), *Pure Appl. Chem.* **1989**, *61*, 1581–1586. [40]
211. An efficient procedure for the synthesis and isolation of (+)(2R,3R,11R,12R)- and (-)(2S,3S,11S,12S)-tetraphenyl-18crown-6 (J. Crosby, M.E. Fakley, C. Gemmell, K. Martin, A. Quick, A.M.Z. Slawin, H. Shahriari-Zavareh, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1989**, *30*, 3849–3852. [14]
212. Supramolecular photochemistry and photophysics. Adducts of [Pt(bpy)(NH₃)₂]²⁺ with aromatic crown ethers (R. Ballardini, M.T. Gandolfi, L. Prodi, M. Ciano, V. Balzani, F.H. Kohnke, H. Shahriari-Zavareh, N. Spencer, J.F. Stoddart), *J. Am. Chem. Soc.* **1989**, *111*, 7072–7078. [43]
213. A new coordinating chiral lithium amide (D. Barr, D.J. Berrisford, R.V.H. Jones, A.M.Z. Slawin, R. Snaith, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1989**, *28*, 1044–1047. [37]
214. The structure-directed synthesis of new organic materials (F.H. Kohnke, J.P. Mathias, J.F. Stoddart), *Angew. Chem. Adv. Mater.* **1989**, *101*, 1103–1110. [58]
215. Stereoregular oligomerization by repetitive Diels-Alder reactions (P.R. Ashton, N.S. Isaacs, F.H. Kohnke, J.P. Mathias, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1989**, *28*, 1258–1261. [35]
216. Trinacrene – a product of structure-directed synthesis (P.R. Ashton, N.S. Isaacs, F.H. Kohnke, G.S. d'Alcontres, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1989**, *28*, 1261–1263. [44]
217. A polynuclear donor-acceptor stack (J.Y. Ortholand, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1989**, *28*, 1394–1395. [105]
218. A [2]catenane made to order (P.R. Ashton, T.T. Goodnow, A.E. Kaifer, M.V. Reddington, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, C. Vicent, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1989**, *28*, 1396–1399. [333]
219. Structure-directed synthesis of unnatural products (F.H. Kohnke, J.P. Mathias, J.F. Stoddart), Proceedings of the International Symposium on Chemical and Biochemical Problems in Molecular Recognition, Exeter, 17–21 April 1989, Ed. S.M. Roberts, Special Publication No. 78, Royal Society of Chemistry, Cambridge, 1989, 241–269.
220. A century of cyclodextrins (J.F. Stoddart), *Carbohydr. Res.* **1989**, *192*, xii–xv. [31]
221. Second sphere coordination of carboplatin and rhodium complexes by cyclodextrins (D.R. Alston, P.R. Ashton, T.H. Lilley, J.F. Stoddart, R. Zarzycki, A.M.Z. Slawin, D.J. Williams), *Carbohydr. Res.* **1989**, *192*, 259–281. [45]
222. All-carbon compounds. Towards the cyclo[*n*]carbons (J.F. Stoddart), *Nature* **1989**, *342*, 482–483. [1]
223. Poly(vinylchloride) matrix membrane uranyl ion-selective electrodes based on cyclic and acyclic neutral carrier sensors (S. Johnson, F.H. Kohnke, G.J. Moody, J.F. Stoddart, J.D.R. Thomas), *Analyst* **1989**, *114*, 1025–1028. [42]
224. Host-guest chemistry (J.F. Stoddart), RSC Annual Reports B 1988 (eds. J.R. Hanson, D. Whiting), **1989**, 353–386.
225. rel-(1R,2S,3R,4S,5R,6S,7R,8S)-1,4:5,8-Diepoxy-2,3,6,7-tetrakis(chloromethyl)-1,2,3,4,5,6,7,8-octahydroanthracene (F.H. Kohnke, J.P. Mathias, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *Acta Crystallogr.* **1990**, *C46*, 1043–1046. [7]
226. rel-(1R,4S,5R,8S)-1,4:5,8-Diepoxy-1,4,5,8-tetrahydro-2,3,6,7-tetramethylidene-anthracene (F.H. Kohnke, J.P. Mathias, J.F. Stoddart, A.M.Z. Slawin, D.J. Watts, D.J. Williams), *Acta Crystallogr.* **1990**, *C46*, 1046–1049. [6]
227. rel-(1R,4S,5S,8R)-1,4,5,8-Diepoxy-1,4,5,8-tetrahydro-2,3,6,7-tetramethylidene-anthracene (F.H. Kohnke, J.P. Mathias, J.F. Stoddart, A.M.Z. Slawin, D.J. Watts, D.J. Williams), *Acta Crystallogr.* **1990**, *C46*, 1049–1051. [5]
228. Second sphere coordination of transition metal complexes by crown ethers (J.F. Stoddart, R. Zarzycki), in Cation Binding by Macrocycles: Complexation of Cationic Species by Crown Ethers, Eds. Y. Inoue, G.W. Gokel, Marcel Decker, New York, 1990, 631–699.

229. Complexation and molecular recognition of neutral and anionic substrates in the solid and solution states by bisparaquat(1,4)cyclophane (M.V. Reddington, N. Spencer, J.F. Stoddart), *Inclusion Phenomena and Molecular Recognition*, Ed. J. Atwood, Plenum Press, New York, 1990, p. 41–48.
230. 11,28-Bis(chloroacetyl)-6,7,9,10,12,13,15,16,23,2,26,27,29,30,32,33-hexadeca-hydrodibenzo[b,q][1,4,7,13,-16,19,22,28,10,25]octaoxadiazacyclotriacontin (P.L. Anelli, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *Acta Crystallogr.* **1990**, *C46*, 1464–1467. [3]
231. 2,5,11,14,19,22,28,31-Octaoxa-8,25-diazatricyclo[30.2.2.215,18]octatriaconta-15,17,32,34,35,37-hexaene (P.L. Anelli, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *Acta Crystallogr.* **1990**, *C46*, 1468–1470. [3]
232. From enzyme mimics to molecular self-assembly processes (J.F. Stoddart), in *Chirality in Drug Design and Synthesis*, Ed. C. Brown, Academic Press, London, 1990, 5–22.
233. Synthesis and characterization of per-3,6-anhydrocyclodextrins (P. Ellwood, J.F. Stoddart), *Minutes of the Fifth International Symposium on Cyclodextrins*, Ed. D. Duchêne, Editions de Santé, Paris, 1990, p. 86–89. [8]
234. Natural Compounds (P. Ellwood, J.P. Mathias, J.F. Stoddart), *The Guinness Encyclopedia*, Ed. I. Crofton, Guinness Publishing, Enfield, 1990, p. 52–53.
235. Man-made products (P. Ellwood, J.P. Mathias, J.F. Stoddart), *The Guinness Encyclopedia*, Ed. I. Crofton, Guinness Publishing, Enfield, 1990, p. 54–55.
236. Chemicals in everyday life (P. Ellwood, J.P. Mathias, J.F. Stoddart), *The Guinness Encyclopedia*, Ed. I. Crofton, Guinness Publishing, Enfield, 1990, p. 56–57.
237. Template-directed synthesis of new organic materials (J.F. Stoddart), in *Frontiers in Supramolecular Organic Chemistry and Photochemistry*, Eds. H.-J. Schneider, H. Dürr, VCH, Weinheim, 1990, 251–263.
238. A new mode of metal encapsulation (J.S. Bartlett, J.F. Costello, S. Ramdas, S. Mehani, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1990**, *29*, 1404–1406. [7]
239. The third allotropic form of carbon (J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1991**, *30*, 70–71. [60]
240. Synthesis and characterization of per-3,6-anhydro-cyclodextrins (P.R. Ashton, P. Ellwood, I. Staton, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1991**, *30*, 80–81. [55]
241. Aggregation of aza crown ethers by metalation: Synthesis and crystal structure of 1-lithio-1,7-diazo[12]crown-4 – the first lithiated crown ether (D. Barr, D.J. Berrisford, L. Mendez, A.M.Z. Slawin, R. Snaith, J.F. Stoddart, D.J. Williams, D.S. Wright), *Angew. Chem., Int. Ed. Engl.* **1991**, *30*, 82–84. [13]
242. Molecular self-assembly processes (J.F. Stoddart), *Ciba Foundation Symposium No. 158, Host-Guest Molecular Interactions: From Chemistry to Biology*, Wiley, Chichester, 1991, 5–22. [19]
243. Second sphere coordination and beyond (J.F. Stoddart), *Abstracts of ACS Meeting in Atlanta, April 14–19, 1991*, INOR 425.
244. The structure-directed synthesis of polyacene derivatives (P.R. Ashton, J.P. Mathias, J.F. Stoddart), *Polymer Preprints* **1991**, *32(1)*, 419–420.
245. Towards synthetic supramolecular polymers (P.L. Anelli, C.L. Brown, D. Philp, N. Spencer, J.F. Stoddart), *Abstracts of ACS Meeting in Atlanta, April 14–19, 1991*, POLY 270; see also *Polymer Preprints* **1991**, *32(1)*, 405–406.
246. Towards a molecular abacus (M.V. Reddington, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, C. Vicent, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1991**, 630–634. [60]
247. The self-assembly of a highly ordered [2]catenane (P.R. Ashton, C.L. Brown, E.J.T. Chrystal, T. Goodnow, A.E. Kaifer, K.P. Parry, D. Philp, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1991**, 634–639. [89]
248. Cyclobis(paraquat-*p*-phenylene): A novel synthetic receptor for amino acids with electron-rich aromatic moieties (T.T. Goodnow, M.V. Reddington, J.F. Stoddart, A.E. Kaifer), *J. Am. Chem. Soc.* **1991**, *113*, 4335–4337. [95]
249. A molecular shuttle (P.L. Anelli, N. Spencer, J.F. Stoddart), *J. Am. Chem. Soc.* **1991**, *113*, 5131–5133. [506]
250. Self-assembly in organic synthesis (D. Philp, J.F. Stoddart), *Synlett* **1991**, 445–458. [281]
251. The self-assembling of a [2]catenane (C.L. Brown, D. Philp, J.F. Stoddart), *Synlett* **1991**, 459–461. [30]

252. The template directed synthesis of a rigid tetracationic cyclophane receptor (C.L. Brown, D. Philp, J.F. Stoddart), *Synlett* **1991**, 462–464. [48]
253. Self-assembling [2]pseudorotaxanes (P.L. Anelli, P.R. Ashton, N. Spencer, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1991**, *30*, 1036–1039. [88]
254. Self-assembling [3]catenanes (P.R. Ashton, C.L. Brown, E.J.T. Chrystal, T.T. Goodnow, A.E. Kaifer, K.P. Parry, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1991**, *30*, 1039–1042. [94]
255. Molecular trains. The self-assembly and dynamic properties of two new catenanes. (P.R. Ashton, C.L. Brown, E.J.T. Chrystal, K.P. Parry, M. Pietraszkiewicz, N. Spencer, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1991**, *30*, 1042–1045. [48]
256. Making molecules to order (J.F. Stoddart), *Chem. Br.* **1991**, *27*, 714–718. [35]
257. Macrocycles – seeds of a revolution (J.F. Stoddart), *Chem. Ind.* **1991**, 622.
258. The template-directed synthesis of a [2]rotaxane (P.R. Ashton, M. Grognoz, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1991**, *32*, 6235–6238. [63]
259. The complexation of tetrathiafulvalene by cyclobis(paraquat-*p*-phenylene) (D. Philp, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1991**, 1584–1586. [156]
260. The self-assembly of [n]pseudorotaxanes (P.R. Ashton, D. Philp, N. Spencer, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1991**, 1677–1679. [98]
261. The self-assembly of complexes with [2]pseudorotaxane superstructures (P.R. Ashton, D. Philp, M.V. Reddington, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1991**, 1680–1683. [78]
262. Per-3,6-anhydro- α -cyclodextrin (P.R. Ashton, P. Ellwood, I. Staton, J.F. Stoddart), *J. Org. Chem.* **1991**, *56*, 7274–7280. [47]
263. Host-guest adducts of aromatic crown ethers with [Pt(bpy)(NH₃)₂]²⁺. Structure effects on the photochemical and photophysical properties. (M.T. Gandolfi, T. Zappi, R. Ballardini, L. Prodi, V. Balzani, J.F. Stoddart, J.P. Mathias, N. Spencer), *Gazz. Chim. Ital.* **1991**, *121*, 521–525. [8]
264. Molecular Meccano 1. [2]Rotaxanes and a [2]catenane made to order (P.L. Anelli, P.R. Ashton, R. Ballardini, V. Balzani, M. Delgado, M.T. Gandolfi, T.T. Goodnow, A.E. Kaifer, D. Philp, M. Pietraszkiewicz, L. Prodi, M.V. Reddington, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, C. Vicent, D.J. Williams), *J. Am. Chem. Soc.* **1992**, *114*, 193–218. [766]
265. The fortuitous discovery of a synthetic cationic molecular receptor system for methanol (B.L. Allwood, L. Méndez, J.F. Stoddart, D.J. Williams, M.K. Williams), *J. Chem. Soc., Chem. Commun.* **1992**, 331–333. [7]
266. Conformational mobility in chemically-modified cyclodextrins (P. Ellwood, C.M. Spencer, N. Spencer, J.F. Stoddart, R. Zarzycki), *J. Incl. Phenom. Mol. Recog.* **1992**, *12*, 121–150. [22]
267. rel-(1R,4S,5R,8S)-1,4:5,8-Diepoxy-1,4,5,8-tetrahydro-9,10-dimethylphenanthrene (F.H. Kohnke, J.P. Mathias, J.F. Stoddart, A.M.Z. Slawin, D.J. Williams), *Acta Crystallogr.* **1992**, *C48*, 663–665. [10]
268. Self-assembling synthetic supramolecular polymers (P.R. Ashton, D. Philp, N. Spencer, J. F. Stoddart), *Makromol. Chem. Macromol. Symp.* **1992**, *54/55*, 441–464. [18]
269. Designing synthetic cationic molecular receptors for alcohols (L. Mendez, R. Singleton, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams, M.K. Williams), *Angew. Chem., Int. Ed. Engl.* **1992**, *31*, 478–480. [12]
270. Self-assembly in chemical systems (P.R. Ashton, R.A. Bissell, D. Philp, N. Spencer, J.F. Stoddart), in *Supramolecular Chemistry*, Eds. V. Balzani, L. De Cola, Kluwer, Dordrecht, 1992, 1–16. [6]
271. Molecular LEGO 1. Substrate-directed synthesis via stereoregular Diels-Alder oligomerizations (P.R. Ashton, G.R. Brown, N.S. Isaacs, D. Giuffrida, F.H. Kohnke, J.P. Mathias, A.M.Z. Slawin, D.R. Smith, J.F. Stoddart, D.J. Williams), *J. Am. Chem. Soc.* **1992**, *114*, 6330–6353. [149]
272. Cyclodextrins, off-the-shelf-components for the construction of mechanically interlocked molecular systems (J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1992**, *31*, 846–848. [78]

273. A new design strategy for the self-assembly of molecular shuttles (P.R. Ashton, D. Philp, N. Spencer, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1992**, 1124–1128. [97]
274. The template-directed synthesis of porphyrin-stoppered [2]rotaxanes (P.R. Ashton, M.R. Johnston, J.F. Stoddart, M.S. Tolley, J.W. Wheeler), *J. Chem. Soc., Chem. Commun.* **1992**, 1128–1131. [77]
275. Creating creative chemists (J.F. Stoddart), *Chem. Ind.* **1992**, 655. [2]
276. The regioselective generation of arynes from polyhalogenobenzenes. An improved synthesis of syn- and anti-1,4,5,8,9,12-hexahydro-1,4:5,8:9,12-triepoxytriphenylene (F. Raymo, F.H. Kohnke, F. Cardullo, U. Girreser, J.F. Stoddart), *Tetrahedron* **1992**, *48*, 6827–6838. [13]
277. Controlling self-assembly in organic synthesis (P.R. Ashton, D. Philp, N. Spencer, J.F. Stoddart), in *Molecular Recognition: Chemical and Biochemical Problems II*, Ed. S.M. Roberts, RSC Special Publication. 1992, 51–63.
278. Towards controllable molecular shuttles – 1 (P.R. Ashton, R.A Bissell, N. Spencer, J.F. Stoddart, M.S. Tolley), *Synlett* **1992**, 914–918. [58]
279. Towards controllable molecular shuttles – 2 (P.R. Ashton, R.A Bissell, R. Górski, D. Philp, N. Spencer, J.F. Stoddart, M.S. Tolley), *Synlett* **1992**, 919–922. [47]
280. Towards controllable molecular shuttles – 3 (P.R. Ashton, R.A Bissell, N. Spencer, J.F. Stoddart, M.S. Tolley), *Synlett* **1992**, 923–926. [89]
281. Characterisation of molecular and supramolecular systems by electrospray mass spectrometry (P.R. Ashton, C.L. Brown, J.R. Chapman, R.T. Gallagher, J.F. Stoddart), *Tetrahedron Lett.* **1992**, *33*, 7771–7774. [33]
282. Decamethylcucurbituril (A. Flinn, G. Hough, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1992**, *31*, 1475–1477. [153]
283. Whither and thither molecular machines (J.F. Stoddart), *Chem. Aust.* **1992**, *59*, 576–577 and 581.
284. Constructing a molecular LEGO set (J.P. Mathias, J.F. Stoddart) *Chem. Soc. Rev.* **1992**, *21*, 215–225. [95]
285. The mechanisms of making molecules to order (C.L. Brown, D. Philp, N. Spencer, J.F. Stoddart), *Israel J. Chem.* **1992**, *32*, 61–67. [33]
286. Cyclobis-(paraquat-*p*-phenylene) as a synthetic receptor for electron-rich aromatic compounds: Electrochemical and spectroscopic studies of neurotransmitter binding (A.R. Bernado, J.F. Stoddart, A.E. Kaifer), *J. Am. Chem. Soc.* **1992**, *114*, 10624–10631. [134]
287. The structure-directed synthesis of cyclacene and polyacene derivatives (U. Girreser, D. Giuffrida, F.H. Kohnke, J.P. Mathias, D. Philp, J.F. Stoddart), *Pure Appl. Chem.* **1993**, *65*, 119–125. [60]
288. The synthesis of a chiral hexaphenyl-18-crown-6 derivative (J. Crosby, J.F. Stoddart, X. Sun, M.R.W. Venner), *Synthesis* **1993**, 141–145. [22]
289. The oligoselective synthesis of polyacene derivatives (P.R. Ashton, J.P. Mathias, J.F. Stoddart), *Synthesis* **1993**, 221–224. [17]
290. Self-assembly and shuttling properties of some multisite [2]rotaxanes (X. Sun, D.B. Amabilino, I.W. Parsons, J.F. Stoddart), *Polymer Preprints* **1993**, *34(1)*, 104–105.
291. Substrate-directed synthesis: The rapid assembly of novel macropolycyclic structures via stereoregular Diels-Alder oligomerizations (F.H. Kohnke, J.P. Mathias, J.F. Stoddart), *Top. Curr. Chem.* **1993**, *165*, 1–67. [32]
292. Molecular recognition and self-assembly (J.F. Stoddart), *An. Quim.* **1993**, *89*, 51–56 [10]
293. The self-assembly of catenated cyclodextrins (D. Armspach, P.R. Ashton, C.P. Moore, N. Spencer, J.F. Stoddart, T.J. Wear, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1993**, *32*, 854–858. [75]
294. The self-assembly of a chiral bis[2]catenane (P.R. Ashton, A.S. Reder, N. Spencer, J.F. Stoddart), *J. Am. Chem. Soc.* **1993**, *115*, 5286–5287. [39]
295. Charge recombination in cyclophane-derived intimate radical ion-pairs (A.C. Benniston, A. Harriman, D. Philp, J.F. Stoddart), *J. Am. Chem. Soc.* **1993**, *115*, 5298–5299. [65]
296. Molecular organization via ionic interactions at interfaces. 1. Monolayers and LB Films of cyclic bisbipyridinium tetracations and dimyristoylphosphatidic acid (R.C. Ahuja, P.-L. Caruso, D. Möbius, G. Wildburg, H. Ringsdorf, D. Philp, J.A. Preece, J.F. Stoddart), *Langmuir* **1993**, *9*, 1534–1544. [96]

297. New approach to controlling catenated structures (D.B. Amabilino, J.F. Stoddart), *Rec. Trav. Chim. Pays Bas* **1993**, *112*, 429–430. [8]
298. Molecular LEGO 2. Substrate-directed synthesis of belt-type and cage-type structures (P.R. Ashton, U. Girreser, D. Giuffrida, F.H. Kohnke, J.P. Mathias, F.M. Raymo, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *J. Am. Chem. Soc.* **1993**, *115*, 5422–5429. [98]
299. Molecular and supramolecular self-assembly processes (R.A. Bissell, J.F. Stoddart) in *Computations for the Nano-Scale*. Eds. P.E. Blöchl, A.J. Fisher, C. Joachim, Kluwer, Dordrecht, 1993, 141–152.
300. Dilithiation of two diphenyl ethers each containing two NHCH₂CH₂Y (Y = OMe, NMe₂) side arms in *ortho* positions: Assembly of “Adamantoid” Li₄O₂N₄ cores (I. Cragg-Hine, M.G. Davidson, O. Kocian, F.S. Mair, E. Pohl, P.R. Raithby, R. Snaith, N. Spencer, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1993**, *32*, 1182–1184. [11]
301. Slippage – an alternative method for assembling [2]rotaxanes (P.R. Ashton, M. Belohradsky, D. Philp, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1993**, 1269–1274. [102]
302. The self-assembly of [2]- and [3]-rotaxanes by slippage (P.R. Ashton, M. Belohradsky, D. Philp, N. Spencer, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1993**, 1274–1277. [66]
303. Monometallation of a di(aminoaryl)ether induces a Smiles rearrangement leading to a sodium aryloxide complex: The synthesis and crystal structure of [(MeOCH₂CH₂)(C₆H₄NHCH₂CH₂OMe)NC₆H₄O·Na]₂ (I. Cragg-Hine, M.G. Davidson, O. Kocian, T. Kottke, F.S. Mair, R. Snaith, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1993**, 1355–1357. [10]
304. Isomeric self-assembling [2]catenanes (D.B. Amabilino, P.R. Ashton, M.S. Tolley, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1993**, *32*, 1297–1301. [50]
305. A photochemically-driven molecular machine (R. Ballardini, V. Balzani, M.T. Gandolfi, L. Prodi, M. Venturi, D. Philp, H.G. Ricketts, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1993**, *32*, 1301–1303. [225]
306. The control of translational isomerism in catenated structures (P.R. Ashton, M. Blower, D. Philp, N. Spencer, J.F. Stoddart, M.S. Tolley, R. Ballardini, M. Ciano, V. Balzani, M.T. Gandolfi, L. Prodi, C.H. McLean), *New J. Chem.* **1993**, *17*, 689–695. [63]
307. Novel rotaxanes based on the inclusion complexation of biphenyl guests by cyclobis (paraquat-*p*-phenylene) (E. Córdova, R.A. Bissell, N. Spencer, P.R. Ashton, J.F. Stoddart, A.E. Kaifer), *J. Org. Chem.* **1993**, *58*, 6550–6552. [82]
308. Bent aromatic rings in naphthalene derivatives (P.R. Ashton, G.R. Brown, A.J. Foubister, D.R. Smith, N. Spencer, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1993**, *34*, 8333–8336. [6]
309. Stereoselectivity in the synthesis of polyacene derivatives by repetitive Diels-Alder reactions (P.R. Ashton, G.R. Brown, D.R. Smith, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1993**, *34*, 8337–8340. [7]
310. Self-assembly and macromolecular design (D.B. Amabilino, J.F. Stoddart), *Pure Appl. Chem.* **1993**, *65*, 2351–2359. [64]
311. The self-assembly of controllable [2]catenanes (P.R. Ashton, R. Ballardini, V. Balzani, M.T. Gandolfi, D.J.-F. Marquis, L. Pérez-García, L. Prodi, J.F. Stoddart, M. Venturi), *J. Chem. Soc., Chem. Commun.* **1994**, 177–180. [62]
312. A self-organised layered superstructure of arrayed [2]pseudorotaxanes (P.R. Ashton, D. Philp, N. Spencer, J.F. Stoddart, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1994**, 181–184. [63]
313. Molecules that build themselves (D.B. Amabilino, J.F. Stoddart), *New Scientist*, 19 Feb 1994, No 1913, p. 25–29. [10]
314. The two-step self-assembly of a [4]- and [5]-catenane (D.B. Amabilino, P.R. Ashton, A.S. Reder, N. Spencer, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1994**, *33*, 433–437. [75]
315. Towards the self-assembly of polyrotaxanes (X. Sun, D.B. Amabilino, P.R. Ashton, I.W. Parsons, J.F. Stoddart, M.S. Tolley), *Macromol. Symp.* **1994**, *77*, 191–207. [23]
316. Polyrotaxanes (D.B. Amabilino, I.W. Parsons, J.F. Stoddart), *Trends Polym. Sci.* **1994**, *2*, 146–152.

317. Cyclodextrins: 'Linking lampshades' (D. Armspach, P.R. Ashton, N. Spencer, J.F. Stoddart, D.J. Williams), *Pesticide Science* **1994**, *41*, 232–235.
318. A simple approach to modelling supramolecular complexes and mechanically interlocked molecules (H.G. Ricketts, J.F. Stoddart, M.M. Hann) in *Computational Approaches in Supramolecular Chemistry*. Ed. G. Wipff, Kluwer, Dordrecht, **1994**, 377–390. [13]
319. An optically-active [2]catenane made to order (P.R. Ashton, I. Iriepa, M.V. Reddington, N. Spencer, A.M.Z. Slawin, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1994**, *35*, 4835–4838. [27]
320. A new route to phenanthrene derivatives (D. Giuffrida, F.H. Kohnke, M. Parisi, F.M. Raymo, J.F. Stoddart), *Tetrahedron Lett.* **1994**, *35*, 4839–4842. [3]
321. Photoinduced electron transfer in supramolecular assemblies composed of dialkoxybenzene-tethered ruthenium(II) trisbipyridine and bipyridine salts (M. Seiler, H. Durr, I. Willner, E. Joselevich, A. Doron, J.F. Stoddart), *J. Am. Chem. Soc.* **1994**, *116*, 3399–3404. [57]
322. A chemically and electrochemically switchable molecular device (R.A. Bissell, E. Córdova, A.E. Kaifer, J.F. Stoddart), *Nature* **1994**, *369*, 133–137. [946]
323. Olympiadane (D.B. Amabilino, P.R. Ashton, A.S. Reder, N. Spencer, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1994**, *33*, 1286–1290. [159]
324. A new class of novel macrocyclic mesogens (P.R. Ashton, D. Joachími, N. Spencer, J.F. Stoddart, C. Tschierske, K. Zab), *Angew. Chem., Int. Ed. Engl.* **1994**, *33*, 1503–1506. [31]
325. From solid-state structures and superstructures to self-assembly processes (D.B. Amabilino, J.F. Stoddart, D.J. Williams), *Chem. Mater.* **1994**, *6*, 1159–1167. [64]
326. Chemical synthesis of nanostructures (J.F. Stoddart, D.B. Amabilino), *MRS 1993 Fall Meeting Symposium Proceedings* **1994**, *330*, 57–60. [1]
327. Supramolecular chemistry (J.P. Mathias, J.F. Stoddart) in *The Encyclopedia of Advanced Materials*, Eds. D. Bloor, R.J. Brook, M.C. Flemings, S. Mahajan, Pergamon, Oxford, 1994, 2729–2740.
328. Template-directed syntheses of a bis[2]catenane and a bis[2]rotaxane – towards self-assembling polymers (P.R. Ashton, J.A. Preece, J.F. Stoddart, M.S. Tolley), *Synlett* **1994**, 789–792. [31]
329. Self-assembled [2]catenanes exhibiting highly selective translational isomerism (D.B. Amabilino, P.R. Ashton, G.R. Brown, W. Hayes, J.F. Stoddart, M.S. Tolley, D.J. Williams) *J. Chem. Soc., Chem. Commun.* **1994**, 2475–2478. [24]
330. The solid-state self-organisation of a self-assembled [2]catenane (D.B. Amabilino, P.R. Ashton, J.F. Stoddart, S. Menzer, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1994**, 2475–2478. [25]
331. Per-6-bromo-per-2,3-dimethyl- β -cyclodextrin (D. Alker, P.R. Ashton, V.D. Harding, R. Königer, J.F. Stoddart, A.J.P. White, D.J. Williams), *Tetrahedron Lett.* **1994**, *35*, 9091–9094. [15]
332. The self-assembly and dynamic properties of thiophene-containing [2]catenanes (P.R. Ashton, J.A. Preece, J.F. Stoddart, M.S. Tolley, A.J.P. White, D.J. Williams), *Synthesis* **1994**, 1344–1352. [38]
333. The design and self-assembly of a furan-containing [2]catenane (P.R. Ashton, M.A. Blower, S. Iqbal, C.H. McLean, J.F. Stoddart, M.S. Tolley, D.J. Williams), *Synlett* **1994**, 1059–1062. [12]
334. The design and self-assembly of a pyridine-containing [2]catenane (P.R. Ashton, M.A. Blower, C.H. McLean, J.F. Stoddart), *Synlett* **1994**, 1063–1066. [12]
335. Concept transfer from biology to materials (J.A. Preece, J.F. Stoddart), *Nanobiology* **1994**, *3*, 149–166. [28]
336. Self-assembly in the metallation of bis(aminoaryl)ethers (O. Kocian, N. Spencer, J.F. Stoddart, I. Cragg-Hine, M. Davidson, F.S. Mair, P. Raithby, R. Snaith, T. Kottke, E. Pohl), *Tetrahedron* **1995**, *51*, 579–590. [2]
337. The self-assembly of redox-active and photo-active catenanes and rotaxanes (J.A. Preece, J.F. Stoddart) in *Molecular Engineering for Advanced Materials*, Eds. J. Becher, K. Schaumburg, Kluwer, Dordrecht, **1995**, 1–28. [9]
338. Advantages of the rotaxane framework for the construction of switchable molecular devices (R.A. Bissell, E. Córdova, J.F. Stoddart, A.E. Kaifer) in *Molecular Engineering for Advanced Materials*, Ed. J. Becher, Kluwer, Dordrecht, 1995, 29–40. [9]

339. Molecular meccano 2. The self-assembly of [n]catenanes (D.B. Amabilino, P.R. Ashton, C.L. Brown, E. Córdova, L.A. Godínez, T.T. Goodnow, A.E. Kaifer, S.P. Newton, M. Pietraszkiewicz, D. Philp, F.M. Raymo, A.S. Reder, M.T. Rutland, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, D.J. Williams), *J. Am. Chem. Soc.* **1995**, *117*, 1271–1293. [170]
340. Controlling translational isomerism in a preprogrammed [2]catenated structure (P.R. Ashton, L. Pérez-García, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1995**, *34*, 571–574. [43]
341. Catenated cyclodextrins (D. Armspach, P.R. Ashton, R. Ballardini, V. Balzani, A. Godi, C.P. Moore, L. Prodi, N. Spencer, J.F. Stoddart, M.S. Tolley, T.J. Wear, D.J. Williams), *Chem. Eur. J.* **1995**, *1*, 33–55. [76]
342. The controlled self-assembly of a [3]rotaxane incorporating three constitutionally different components (D.B. Amabilino, P.R. Ashton, M. Belohradsky, F.M. Raymo, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1995**, 747–750. [46]
343. The self-assembly of branched [n]rotaxanes – the first step towards dendritic rotaxanes (D.B. Amabilino, P.R. Ashton, M. Belohradsky, F.M. Raymo, J.F. Stoddart), *J. Chem. Soc., Chem. Commun.* **1995**, 751–753. [81]
344. Supported monolayers containing preformed binding sites. Synthesis and interfacial binding properties of a thiolated β -cyclodextrin derivative (M.T. Rojas, R. Königer, J.F. Stoddart, A.E. Kaifer) *J. Am. Chem. Soc.* **1995**, *117*, 336–343. [397]
345. Self-assembly of [n]rotaxanes (M. Belohradsky, D. Philp, F.M. Raymo, J.F. Stoddart), Proceedings of the International Symposium on Organic Reactivity: Physical and Biological Aspects, Newcastle, 11-16 July 1993, Ed. B.T. Golding, Special Publication No 148, Royal Society of Chemistry, Cambridge, **1995**, 387–398.
346. Macrocyclic polyethers incorporating resorcinol residues as templates for cyclobis(paraquat-*p*-phenylene) in the self-assembly of [2]catenanes (D.B. Amabilino, P.R. Ashton, J.F. Stoddart), *Supramolecular Chemistry* **1995**, *5*, 5–8.
347. The self-assembly of two bis[2]catenanes and a bis[2]rotaxane – model compounds for mechanically-linked polymers (D.B. Amabilino, P.R. Ashton, J.A. Preece, J.F. Stoddart, M.S. Tolley), *Polymer Preprints* **1995**, *36*, 587–588.
348. The molecular olympics: going for gold (D.B. Amabilino, J.F. Stoddart), *Chemistry Review* **1995**, *4*, 10–15.
349. Towards molecular and supramolecular devices (J.A. Preece, J.F. Stoddart) in *Ultimate Limits of Fabrication and Measurement*, Eds. M.E. Welland, J.K. Gimzewski, Kluwer, Dordrecht, **1995**, 1–8.
350. Self-assembly: whither and thither molecular machines (J.A. Preece, J.F. Stoddart) in *Ultimate Limits of Fabrication and Measurement*, Eds. M.E. Welland, J.K. Gimzewski, Kluwer, Dordrecht, **1995**, 225–228.
351. A novel approach to the synthesis of some chemically-modified cyclodextrins (P.R. Ashton, S.E. Boyd, G. Gattuso, E.Y. Hartwell, R. Königer, N. Spencer, J.F. Stoddart), *J. Org. Chem.* **1995**, *60*, 3898–3903. [49]
352. The synthesis and structural mapping of unsymmetrical chemically-modified α -cyclodextrins by high-field nuclear magnetic resonance spectroscopy (P.R. Ashton, E.Y. Hartwell, D. Philp, N. Spencer, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 2* **1995**, 1263–1277. [13]
353. Molecular mosaics formed by a square cyclophane and its inclusion complex with ferrocene (P.R. Ashton, C.G. Claessens, W. Hayes, S. Menzer, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew., Chem. Int. Ed. Engl.* **1995**, *34*, 1862–1865. [52]
354. Dialkylammonium ion/crown ether complexes: The forerunners of a new family of interlocked molecules (P.R. Ashton, P.J. Campbell, E.J.T. Chrystal, P.T. Glink, S. Menzer, D. Philp, N. Spencer, J.F. Stoddart, P.A. Tasker, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1995**, *34*, 1865–1869. [333]
355. Doubly encircled and double stranded pseudorotaxanes (P.R. Ashton, E.J.T. Chrystal, P.T. Glink, S. Menzer, C. Schiavo, J.F. Stoddart, P.A. Tasker, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1995**, *34*, 1869–1871. [89]
356. Towards mechanically-linked polymers (J.A. Preece, J.F. Stoddart), *Macromol. Symp.* **1995**, *98*, 527–540. [12]
357. Molecular recognition by catenated structures (D.B. Amabilino, J.F. Stoddart) in *Supramolecular Stereochemistry*, Ed. J. Siegel, Kluwer, Dordrecht, 1995, 33–40. [2]

358. Towards molecular devices (J.F. Stoddart, N.M. Rowley) in *From Simplicity to Complexity in Chemistry*, Eds. A. Müller, A. Dress, F. Vögtle, Verlag Vieweg, Wiesbaden, 1995, 99–112.
359. Photochemical, photophysical and electrochemical properties of a photoisomerizable cyclophane and its [2]catenanes with aromatic crown ethers (R. Ballardini, V. Balzani, A. Credi, M.T. Gandolfi, L. Pérez-García, L. Prodi, J.F. Stoddart, M. Venturi), *Gazz. Chim. Ital.* **1995**, *125*, 353–359. [3]
360. Self-assembling catenanes and rotaxanes (D. Pasini, F.M. Raymo, J.F. Stoddart), *Gazz. Chim. Ital.* **1995**, *125*, 431–443. [29]
361. Kinetic selection in the template-directed self-assembly of [2]catenanes (D.A. Amabilino, P.R. Ashton, L. Pérez-García, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1995**, *34*, 2378–2380. [41]
362. Molecular meccano 3: Constitutional and translational isomerism in [2]catenanes and [n]pseudorotaxanes (D.B. Amabilino, P.L. Anelli, P.R. Ashton, G.R. Brown, E. Córdova, L.A. Godínez, W. Hayes, A.E. Kaifer, D. Philp, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, M.S. Tolley, D.J. Williams), *J. Am. Chem. Soc.* **1995**, *117*, 11142–11170. [137]
363. Molecular meccano 4: The self-assembly of [2]catenanes incorporating photoactive and electroactive π -extended systems (P.R. Ashton, R. Ballardini, V. Balzani, A. Credi, M.T. Gandolfi, S. Menzer, L. Pérez-García, L. Prodi, J.F. Stoddart, M. Venturi, A.J.P. White, D.J. Williams), *J. Am. Chem. Soc.* **1995**, *117*, 11171–11197. [174]
364. Self-assembly in chemical synthesis (S.J. Langford, L. Pérez-García, J.F. Stoddart), *J. Supramol. Chem.* **1995**, *6*, 11–27. [14]
365. Interlocked and intertwined structures and superstructures (D.B. Amabilino, J.F. Stoddart), *Chem. Rev.* **1995**, *95*, 2725–2828. [1444]
366. Cyclophanes with self-recognising components (P.L. Anelli, M. Asakawa, P.R. Ashton, G.R. Brown, W. Hayes, O. Kocian, S. Rodríguez Pastor, J.F. Stoddart, M.S. Tolley, A.J.P. White, D.J. Williams), *J. Chem. Soc., Chem. Commun.* **1995**, 2541–2545. [8]
367. Bis[2]catenanes and a bis[2]rotaxane – model compounds for polymers with mechanically interlocked components (P.R. Ashton, J. Huff, I.W. Parsons, J.A. Preece, J.F. Stoddart, M.S. Tolley, D.J. Williams, A.J.P. White), *Chem. Eur. J.* **1996**, *2*, 31–44. [86]
368. Towards supramolecular polymers (J. Huff, J.A. Preece, J.F. Stoddart), *Macromol. Symp.* **1996**, *102*, 1–8. [9]
369. Hydrogen-bonded pseudorotaxanes (M. Asakawa, P.R. Ashton, G.R. Brown, W. Hayes, S. Menzer, J.F. Stoddart, A.J.P. White, D.J. Williams), *Adv. Mater.* **1996**, *8*, 37–41. [37]
370. Amino acid derivatives of β -cyclodextrin (D. Alker, P.R. Ashton, V.D. Harding, R. Königer, J.F. Stoddart), *J. Org. Chem.* **1996**, *61*, 903–908. [135]
371. Template-directed syntheses of rotaxanes (M. Belohradsky, F.M. Raymo, J.F. Stoddart), *Collect. Czech. Chem. Commun.* **1996**, *61*, 1–43. [60]
372. Self-assembling wholly-synthetic systems (F.M. Raymo, J.F. Stoddart), *Curr. Opin. Coll. Interf. Sci.* **1996**, *1*, 116–126. [27]
373. The self-assembly and metal-mediated disassembly of a multitopic [2]pseudorotaxane (P.R. Ashton, S. Iqbal, J.F. Stoddart, N.D. Tinker), *Chem. Commun.* **1996**, 479–481. [11]
374. The self-assembly of some novel [2]rotaxanes and their alkali metal cation complexes (M. Asakawa, P.R. Ashton, S. Iqbal, J.F. Stoddart, N.D. Tinker, A.J.P. White, D.J. Williams), *Chem. Commun.* **1996**, 483–486. [13]
375. The template-directed synthesis of cyclobis(paraquat-4,4'-biphenylene) (P.R. Ashton, S. Menzer, F.M. Raymo, G.K.H. Shimizu, J.F. Stoddart, and D.J. Williams), *Chem. Commun.* **1996**, 487–490. [14]
376. Effects of strained bicyclic annelation on the benzene nucleus: The X-ray crystal structures of a triphenylene and two anthracene derivatives (F. Cardullo, D. Giuffrida, F.H. Kohnke, F. Raymo, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1996**, *35*, 339–341. [24]
377. Self-assembling cyclobis(paraquat-4,4'-biphenylene) (F.M. Raymo, J.F. Stoddart), *Pure Appl. Chem.* **1996**, *68*, 313–322. [57]

378. Crown ethers (D.B. Amabilino, J.A. Preece, J.F. Stoddart), in *Macrocyclic Synthesis: A Practical Approach*, Ed. D. Parker, Oxford University Press, Oxford, 1996, 71–91.
379. A prototypical optically responsive molecular device (M. Asakawa, S. Iqbal, J.F. Stoddart, N.D. Tinker), *Angew. Chem., Int. Ed. Engl.* **1996**, *35*, 976–978. [43]
380. Simple molecular machines. Cyclical chemically-driven unthreading and re-threading of a [2]pseudorotaxane (R. Ballardini, V. Balzani, A. Credi, M.T. Gandolfi, S.J. Langford, S. Menzer, L. Prodi, J.F. Stoddart, M. Venturi, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1996**, *35*, 978–981. [76]
381. Synthetic cyclic oligosaccharides. Syntheses and structural properties of a cyclo[(1→4)- α -L-rhamnopyranosyl-(1→4)- α -D-mannopyranosyl]-trioside and -tetraoside (P.R. Ashton, C.L. Brown, S. Menzer, S.A. Nepogodiev, J.F. Stoddart, D.J. Williams), *Chem. Eur. J.* **1996**, *2*, 580–591. [57]
382. A switchable hybrid [2]-catenane based on transition metal complexation and π -electron donor–acceptor interactions (D.B. Amabilino, C.O. Dietrich-Buchecker, A. Livoreil, L. Pérez-García, J.-P. Sauvage, J.F. Stoddart), *J. Am. Chem. Soc.* **1996**, *118*, 3905–3913. [78]
383. Self-assembly in natural and unnatural systems (D. Philp, J.F. Stoddart), *Angew. Chem., Int. Ed. Engl.* **1996**, *35*, 1155–1196. [1941]
384. Pseudorotaxanes formed between secondary dialkylammonium salts and crown ethers (P.R. Ashton, E.J.T. Chrystal, P.T. Glink, S. Menzer, C. Schiavo, N. Spencer, J.F. Stoddart, P.A. Tasker, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1996**, *2*, 709–728. [214]
385. Self-assembling [2]- and [3]-rotaxanes from secondary dialkylammonium salts and crown ethers (P.R. Ashton, P.T. Glink, J.F. Stoddart, P.A. Tasker, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1996**, *2*, 729–736. [137]
386. Molecular meccano 9. Self-assembly, spectroscopic and electrochemical properties of [n]rotaxanes (P.R. Ashton, R. Ballardini, V. Balzani, M. Belohradsky, M.T. Gandolfi, D. Philp, L. Prodi, F.M. Raymo, M.V. Reddington, N. Spencer, J.F. Stoddart, M. Venturi, D.J. Williams), *J. Am. Chem. Soc.* **1996**, *118*, 4931–4951. [152]
387. The self-assembly of a complex with a [3]pseudorotaxane superstructure (P.R. Ashton, S.J. Langford, N. Spencer, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Commun.* **1996**, 1387–1388. [29]
388. Self-assembly in chemical synthesis (S.J. Langford, J.F. Stoddart) in *Chemical Synthesis: Gnosis and Prognosis*, Eds. C. Chatgililoglu, V. Snieckus, Kluwer, Dordrecht, 1996, 381–401. [3]
389. Making unnatural products by natural means (S.J. Langford, J.F. Stoddart) in *Chemical Synthesis: Gnosis and Prognosis*, Eds. C. Chatgililoglu, V. Snieckus, Kluwer, Dordrecht, 1996, 475–510. [2]
390. Self-assembly in chemical systems (S.J. Langford, J.F. Stoddart), *Pure Appl. Chem.* **1996**, *68*, 1255–1260. [12]
391. Molecular nanostructures (M. Gómez-López, J.A. Preece, J.F. Stoddart), *Proceedings of the Robert A Welch Foundation, 39th Conference on Chemical Research, Nanophase Chemistry, October 23-24, 1995, Foundation Offices, Houston, 1996*, 95–107.
392. The genesis of a new range of interlocked molecules (P.T. Glink, C. Schiavo, J.F. Stoddart, D.J. Williams), *Chem. Commun.* **1996**, 1483–1490. [102]
393. Polyrotaxanes and pseudopolyrotaxanes (F.M. Raymo, J.F. Stoddart), *Trends Polym. Sci.* **1996**, *4*, 208–211. [38]
394. Donor-acceptor template-directed syntheses of catenanes and rotaxanes (D.B. Amabilino, F.M. Raymo, J.F. Stoddart), in *Comprehensive Supramolecular Chemistry*, Ed.: M.W. Hosseini, J.-P. Sauvage, 1996, vol. 9, 85–130.
395. Polyrotaxanes (J.A. Preece, F.M. Raymo, J.F. Stoddart) in *The Polymeric Materials Encyclopedia*, Ed. J.C. Salamone, CRC Press Inc, 1996, 9, 6695–6704.
396. Molecular meccano. 8. Cyclobis(paraquat-4,4'-biphenylene) – An organic molecular square (M. Asakawa, P.R. Ashton, S. Menzer, F.M. Raymo, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1996**, *2*, 877–893. [63]
397. Bifunctional homopolymeric hydrogen-bonded tapes (P.R. Ashton, G.R. Brown, W. Hayes, S. Menzer, D. Philp, J.F. Stoddart, D.J. Williams), *Adv. Mater.* **1996**, *8*, 564–567. [12]

398. Mechanically-interlocked molecules: Prototypes of molecular machinery (F.M. Raymo, J.F. Stoddart) in *Magnetism: A Supramolecular Function*, NATO ARW, (Ed. O. Kahn), Kluwer, Dordrecht, 1996, 33–51. [2]
399. Switchable interlocked molecules, threaded complexes, and interlocking in crystals (D.B. Amabilino, C.O. Dietrich-Buchecker, A. Livoreil, L. Pérez-García, J.-P. Sauvage, J.F. Stoddart), in “Magnetism: A Supramolecular Function”, NATO-ARW Series (Ed. O. Kahn), Kluwer, Dordrecht, 1996, 65–83. [7]
400. Towards controllable [2]catenanes and [2]rotaxanes (S.J. Langford, J.F. Stoddart), in “Magnetism: A Supramolecular Function”, NATO-ARW Series (Ed. O. Kahn), Kluwer, Dordrecht, 1996, 85–106. [2]
401. Synthesis of ligands containing two and three 2,2'-(bisamino)diphenyl ether units designed for molecular self-assembly on lithiation (P.R. Ashton, B. Hörner, O. Kocian, S. Menzer, A.J.P. White, J.F. Stoddart, D.J. Williams), *Synthesis* **1996**, 930–940. [13]
402. A novel fluorine-containing [2]catenane (R.E. Gillard, J.F. Stoddart, B.J. Williams, D.J. Williams), *J. Org. Chem.* **1996**, *61*, 4504–4505. [37]
403. A convergent synthesis of carbohydrate-containing dendrimers (P.R. Ashton, C.L. Brown, S. Boyd, N. Jayaraman, S. Nepogodiev, J.F. Stoddart), *Chem. Eur. J.* **1996**, *2*, 1115–1128. [140]
404. The art and science of self-assembling molecular machines (M. Gómez-López, J.A. Preece, J.F. Stoddart, *Nanotechnology* **1996**, *7*, 183–192. [96]
405. Thermodynamically-controlled self-assembly of pseudorotaxanes and pseudopolyrotaxanes with different recognition motifs operating self-selectively (P.R. Ashton, P.T. Glink, M.-V. Martínez-Díaz, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1996**, *35*, 1930–1933. [61]
406. Second-sphere coordination (F.M. Raymo, J.F. Stoddart), *Chem. Ber.* **1996**, *129*, 981–990. [67]
407. The solid state structures of a [3]rotaxane and its [3]pseudorotaxane precursor (P.R. Ashton, P.T. Glink, J.F. Stoddart, S. Menzer, P.A. Tasker, A.J.P. White, D.J. Williams), *Tetrahedron Lett.* **1996**, *37*, 6217–6220. [27]
408. Highly enantioselective recognition of amino acids by axially-chiral π -electron deficient receptors (M. Asakawa, C.L. Brown, D. Pasini, J.F. Stoddart, P.G. Wyatt), *J. Org. Chem.* **1996**, *61*, 7234–7235. [35]
409. Chromatography of mechanically-interlocked molecular compounds (M. Asakawa, D. Pasini, F.M. Raymo, J.F. Stoddart), *Anal. Chem.* **1996**, *68*, 3879–3881. [4]
410. Supramolecular chemistry (M. Gómez-López, J.F. Stoddart) in 1997 Yearbook of Science and Technology, Ed. S.P. Parker, McGraw-Hill, New York, 1996, 448–452.
411. Molecular meccano 13. Self-assembly of [n]rotaxanes bearing dendritic stoppers (D.B. Amabilino, P.R. Ashton, V. Balzani, C.L. Brown, A. Credi, J.M.J. Fréchet, J.W. Leon, F.M. Raymo, N. Spencer, J.F. Stoddart, M. Venturi), *J. Am. Chem. Soc.* **1996**, *118*, 12012–12020. [115]
412. Dipotassium complex of per-3,6-anhydro- β -cyclodextrin (P.R. Ashton, G. Gattuso, R. Königer, J.F. Stoddart, D.J. Williams), *J. Org. Chem.* **1996**, *61*, 9553–9555. [22]
413. Improved template-directed synthesis of cyclobis(paraquat-*p*-phenylene) (M. Asakawa, W. Dehaen, G. L'abbé, S. Menzer, J. Nouwen, F.M. Raymo, J.F. Stoddart, D.J. Williams), *J. Org. Chem.* **1996**, *61*, 9591–9595. [186]
414. Synthesis and properties of a new family of cyclodextrin analogues (S.A. Nepogodiev, G. Gattuso, J.F. Stoddart), Proceedings of the 8th International Cyclodextrin Symposium, Budapest, 1996 (Eds. J. Szejtli, L. Szenté), Kluwer, The Netherlands, pp. 89–94. [1]
415. Self-assembled macromolecular and macrosupramolecular systems (S.P. Newton, J.F. Stoddart, W. Hayes), *Supramolecular Science* **1996**, *3*, 221–236.
416. Cyclic molecules formed by self-assembly (W. Hayes, J.F. Stoddart), in *Large Ring Molecules*, Ed. J.A. Semlyen, J. Wiley & Sons Ltd, New York, 1996, pp. 433–471.
417. Langmuir films and Langmuir-Blodgett multilayers incorporating mechanically-threaded molecules (R.C. Ahuja, P.-L. Caruso, D. Möbius, D. Philp, J.A. Preece, H. Ringsdorf, J.F. Stoddart, G. Wildburg), *Thin Solid Films* **1996**, *284/285*, 671–677. [27]
418. Self-assembly and self-organisation: Programming molecules to form nanoscale structures (J.A. Preece, H. Ringsdorf, J.F. Stoddart), in Proceedings of One Day Symposium on Living Computers, Eds. A.M. Fedorec, P.J. Marcer, Greenwich University Press, 1996, pp. 12–21.

419. Functionalized [2]rotaxanes (M. Asakawa, P.R. Ashton, S. Iqbal, A. Quick, J.F. Stoddart, N.D. Tinker, A.J.P. White, D.J. Williams), *Israel J. Chem.* **1996**, *36*, 329–340. [6]
420. From biology to materials (J.A. Preece, J.F. Stoddart) in *Nanotechnology in Medicine and the Biosciences*, Ed. R.R.H. Combs, Gordon and Breach, Reading, 1996, pp. 211–230.
421. Molecular meccano 11. Recognition of bipyridinium-based derivatives by hydroquinone- and/or dioxynaphthalene-based macrocyclic polyethers – From inclusion complexes to the self-assembly of [2]catenanes (M. Asakawa, P.R. Ashton, S.E. Boyd, C.L. Brown, R.E. Gillard, O. Kocian, F.M. Raymo, J.F. Stoddart, M.S. Tolley, A.J.P. White, D.J. Williams), *J. Org. Chem.* **1997**, *62*, 26–37. [85]
422. Molecular meccano 12. The slipping approach to self-assembling [n]rotaxanes (M. Asakawa, P.R. Ashton, R. Ballardini, V. Balzani, M. Belohradsky, M.T. Gandolfi, O. Kocian, L. Prodi, F.M. Raymo, J.F. Stoddart, M. Venturi), *J. Am. Chem. Soc.* **1997**, *119*, 302–310. [140]
423. Molecular meccano 14. Simple mechanical molecular and supramolecular machines: Photochemical and electrochemical control of switching processes (P.R. Ashton, R. Ballardini, V. Balzani, S.E. Boyd, A. Credi, M.T. Gandolfi, M. Gómez-López, S. Iqbal, D. Philp, J.A. Preece, L. Prodi, H.G. Ricketts, J.F. Stoddart, M.S. Tolley, M. Venturi, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1997**, *3*, 152–170. [192]
424. An interwoven supramolecular cage (P.R. Ashton, A. Collins, M.C.T. Fyfe, P.T. Glink, S. Menzer, J.F. Stoddart, D.J. Williams), *Angew. Chem., Int. Ed. Engl.* **1997**, *36*, 59–62. [40]
425. Molecular meccano 15. Structure-reactivity relationship in interlocked molecular compounds and in their supramolecular model complexes (M. Asakawa, C.L. Brown, S. Menzer, F.M. Raymo, J.F. Stoddart, D.J. Williams), *J. Am. Chem. Soc.* **1997**, *119*, 2614–2627. [40]
426. Molecular logic. An XOR gate based on a mechanical molecular machine (A. Credi, V. Balzani, S.J. Langford, J.F. Stoddart), *J. Am. Chem. Soc.* **1997**, *119*, 2679–2681. [471]
427. Molecular meccano 16. Axially-chiral catenanes and π -electron deficient receptors (M. Asakawa, P.R. Ashton, S.E. Boyd, C.L. Brown, S. Menzer, D. Pasini, J.F. Stoddart, M.S. Tolley, A.J.P. White, D.J. Williams, P.G. Wyatt), *Chem. Eur. J.* **1997**, *3*, 463–481. [50]
428. Thiamacrocyclic chemistry: Synthesis of novel oxadithiacrown and its copper iodide complex (P.R. Ashton, A.L. Burns, C.G. Claessens, G.K.H. Shimizu, K. Small, J.F. Stoddart, A.J.P. White, D.J. Williams), *J. Chem. Soc., Dalton Trans.* **1997**, 1493–1496. [27]
429. A convergent synthesis of a carbohydrate-containing dendrimer (P.R. Ashton, S.E. Boyd, C.L. Brown, N. Jayaraman, J.F. Stoddart), *Angew. Chem.* **1997**, *109*, 756–759; *Angew. Chem., Int. Ed. Engl.* **1997**, *36*, 732–735. [78]
430. Supramolecular weaving (P.R. Ashton, A.N. Collins, M.C.T. Fyfe, S. Menzer, J.F. Stoddart, D.J. Williams), *Angew. Chem.* **1997**, *109*, 760–763; *Angew. Chem., Int. Ed. Engl.* **1997**, *36*, 735–739. [53]
431. Towards a molecular anchor chain: Synthesis and catenations of spiro crown ethers (P.R. Ashton, T. Horn, N. Spencer, S. Menzer, J.A. Preece, J.F. Stoddart, D.J. Williams), *Synthesis* **1997**, 480–488. [10]
432. Template-directed synthesis of catenanes (M. Belohradsky, F.M. Raymo, J.F. Stoddart), *Collect. Czech. Chem. Commun.* **1997**, *62*, 527–557. [33]
433. Molecular meccano 19. Self-assembly of novel [2]catenanes and [2]pseudorotaxanes incorporating either thiacyclic ethers or their acyclic analogs (M. Asakawa, P.R. Ashton, W. Dehaen, G. L'abbé, S. Menzer, J. Nouwen, F.M. Raymo, J.F. Stoddart, M.S. Tolley, S. Toppet, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1997**, *3*, 772–787. [25]
434. Molecular meccano 20. A novel type of isomerism in [3]catenanes (P.R. Ashton, S.E. Boyd, C.G. Claessens, R.E. Gillard, S. Menzer, J.F. Stoddart, M.S. Tolley, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1997**, *3*, 788–798. [27]
435. Synthesis of glycodendrimers by modification of poly(propylene imine) dendrimers (P.R. Ashton, S.E. Boyd, C.L. Brown, S.A. Nepogodiev, E.W. Meijer, H.W.I. Peerlings, J.F. Stoddart), *Chem. Eur. J.* **1997**, *3*, 974–984. [147]

436. Molecular meccano 10. Toward controllable molecular shuttles (P.-L. Anelli, M. Asakawa, P.R. Ashton, R.A. Bissell, G. Clavier, R. Górski, A.E. Kaifer, S.J. Langford, G. Mattersteig, S. Menzer, D. Philp, A.M.Z. Slawin, N. Spencer, J.F. Stoddart, M.S. Tolley, D.J. Williams), *Chem. Eur. J.* **1997**, *3*, 1113–1135. [144]
437. Molecular meccano 18. Molecular and supramolecular synthesis with dibenzofuran-containing systems (M. Asakawa, P.R. Ashton, C.L. Brown, M.C.T. Fyfe, S. Menzer, D. Pasini, C. Scheuer, N. Spencer, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1997**, *3*, 1136–1150. [39]
438. Molecular meccano 17. Translational isomerism in some two- and three-station [2]rotaxanes (D.B. Amabilino, P.R. Ashton, S.E. Boyd, M. Gómez-López, W. Hayes, J.F. Stoddart), *J. Org. Chem.* **1997**, *62*, 3062–3075. [21]
439. A self-complexing macrocycle acting as a chromophoric receptor (P.R. Ashton, M. Gómez-López, S. Iqbal, J.A. Preece, J.F. Stoddart), *Tetrahedron Lett.* **1997**, *38*, 3635–3638. [18]
440. Detecting a transition metal ammine at tailored surfaces (S. Iqbal, F.J.B. Kremer, J.A. Preece, H. Ringsdorf, M. Steinbeck, J.F. Stoddart, J. Shen, N.D. Tinker), *J. Mater. Chem.* **1997**, *7*, 1147–1154. [4]
441. Synthetic carbohydrate-containing dendrimers. A concept article (N. Jayaraman, S.A. Nepogodiev, J.F. Stoddart), *Chem. Eur. J.* **1997**, *3*, 1193–1199. [140]
442. Synthetic cyclic oligosaccharides. Part 2. Achiral cyclodextrin analogs (P.R. Ashton, S.J. Cantrill, G. Gattuso, S. Menzer, S.A. Nepogodiev, A.N. Shipway, J.F. Stoddart, D.J. Williams), *Chem. Eur. J.* **1997**, *3*, 1299–1314. [31]
443. The self-assembly of the first fullerene-containing [2]catenane (F. Diederich, M. Gómez-López, J.-F. Nierengarten, J.A. Preece, F.M. Raymo, J.F. Stoddart), *Angew. Chem.* **1997**, *109*, 1611–1614; *Angew. Chem., Int. Ed. Engl.* **1997**, *36*, 1448–1451. [58]
444. Synthetic cyclic oligosaccharides. Part 3. Carbohydrate nanotubes (G. Gattuso, S. Menzer, S.A. Nepogodiev, J.F. Stoddart, D.J. Williams), *Angew. Chem.* **1997**, *109*, 1615–1617; *Angew. Chem., Int. Ed. Engl.* **1997**, *36*, 1451–1454. [94]
445. The quest for nanoscaled devices (S.J. Langford, F.M. Raymo, J.F. Stoddart), in *Molecular Electronics*, Eds. M. Ratner, J. Jortner, Blackwell, Oxford, 1997, pp. 325–342.
446. Self-assembly in chemical systems (F.M. Raymo, J.F. Stoddart), in *New Trends in Materials Chemistry*, Eds. C.R.A. Catlow, A. Cheetham, Kluwer, The Netherlands, 1997, pp. 495–511. [1]
447. Molecular machines (F.M. Raymo, J.F. Stoddart), in *New Trends in Materials Chemistry*, Eds. C.R.A. Catlow, A. Cheetham, Kluwer, The Netherlands, 1997, pp. 513–528. [1]
448. Self-assembly of a water-soluble [2]rotaxane with carbohydrate stoppers (P.R. Ashton, S.R.L. Everitt, M. Gómez-López, N. Jayaraman, J.F. Stoddart), *Tetrahedron Lett.* **1997**, *38*, 5691–5694. [27]
449. Synthesis of carbohydrate-containing dendrimers 5. Preparation of dendrimers using unprotected carbohydrates (N. Jayaraman, J.F. Stoddart), *Tetrahedron Lett.* **1997**, *38*, 6767–6770. [39]
450. Slippage – a simple and efficient way to self-assemble [n]rotaxanes (F.M. Raymo, J.F. Stoddart), *Pure Appl. Chem.* **1997**, *69*, 1987–1997. [46]
451. A supramolecular analog of the photosynthetic special pair (M.C. Fieters, M.C.T. Fyfe, M.-V. Martínez-Díaz, S. Menzer, R.J.M. Nolte, J.F. Stoddart, P.J.M. van Kan, D.J. Williams), *J. Am. Chem. Soc.* **1997**, *119*, 8119–8120. [44]
452. π - π Interactions in self-assembly (C.G. Claessens, J.F. Stoddart), *J. Phys. Org. Chem.* **1997**, *10*, 254–272. [312]
453. The self-assembly of a switchable [2]rotaxane (M.-V. Martínez-Díaz, N. Spencer, J.F. Stoddart), *Angew. Chem.* **1997**, *109*, 1991–1994; *Angew. Chem., Int. Ed. Engl.* **1997**, *36*, 1904–1907. [174]
454. Synthetic supramolecular chemistry (M.C.T. Fyfe, J.F. Stoddart), *Acc. Chem. Res.* **1997**, *30*, 393–401. [585]
455. Molecular meccano 26. Hydrogen bonded complexes of aromatic crown ethers with (9-anthracenyl)methylammonium derivatives. Supramolecular photochemistry and photophysics. pH-Controllable supramolecular switching (P.R. Ashton, R. Ballardini, V. Balzani, M. Gómez-López, S.E. Lawrence, M.-V. Martínez-Díaz, M. Montali, A. Piersanti, L. Prodi, J.F. Stoddart, D.J. Williams), *J. Am. Chem. Soc.* **1997**, *119*, 10641–10651. [123]

456. Discussion of the Harada and Meijer lectures (J.F. Stoddart), in *Modular Chemistry*, Ed. J. Michl, Kluwer, The Netherlands, 1997, pp. 385–396. [1]
457. New modules – new families of interlocked molecules (P.T. Glink, J.F. Stoddart), in *Modular Chemistry*, Ed. J. Michl, Kluwer, The Netherlands, 1997, pp. 609–622.
458. Building supramolecular nanostructures on surfaces: the influence of the substrate (P. Laitenberger, C.G. Claessens, L. Kuipers, F.M. Raymo, R.E. Palmer, J.F. Stoddart), *Chem. Phys. Lett.* **1997**, *279*, 209–214. [19]
459. Anion-assisted self-assembly (M.C.T. Fyfe, P.T. Glink, S. Menzer, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew. Chem.* **1997**, *109*, 2158–2160; *Angew. Chem., Int. Ed. Engl.* **1997**, *36*, 2068–2070. [165]
460. The five-stage self-assembly of a branched heptacatenane (D.B. Amabilino, P.R. Ashton, S.E. Boyd, J.Y. Lee, S. Menzer, J.F. Stoddart, D.J. Williams), *Angew. Chem.* **1997**, *109*, 2160–2162; *Angew. Chem., Int. Ed. Engl.* **1997**, *36*, 2070–2072. [62]
461. Controlling self-assembly (R.E. Gillard, F.M. Raymo, J.F. Stoddart), *Chem. Eur. J.* **1997**, *3*, 1933–1940. [120]
462. Electrochemically induced molecular motions in pseudorotaxanes: a case of dual mode (oxidative and reductive) dethreading (M. Asakawa, P.R. Ashton, V. Balzani, A. Credi, G. Mattersteig, O.A. Matthews, M. Montali, N. Spencer, J.F. Stoddart, M. Venturi), *Chem. Eur. J.* **1997**, *3*, 1992–1996. [171]
463. Molecular meccano 27. A template-directed synthesis of a molecular trefoil knot (P.R. Ashton, O.A. Matthews, S. Menzer, F.M. Raymo, N. Spencer, J.F. Stoddart, D.J. Williams), *Leibigs Ann./Recueil* **1997**, 2485–2494. [79]
464. Molecular and supramolecular switching systems (M. Gómez-López, J.F. Stoddart), *Bull. Soc. Chim. Belg.* **1997**, *106*, 491–500. [14]
465. Polycationic dendrimers (P.R. Ashton, K. Shibata, A.N. Shipway, J.F. Stoddart), *Angew. Chem.* **1997**, *109*, 2902–2905; *Angew. Chem., Int. Ed. Engl.* **1997**, *36*, 2781–2783. [23]
466. Molecular meccano 22. Controlling catenations, properties and relative ring-component movements in catenanes with aromatic fluorine substituents (R. Ballardini, V. Balzani, A. Credi, C.L. Brown, R.E. Gillard, M. Montalti, D. Philp, J.F. Stoddart, M. Venturi, A.J.P. White, B.J. Williams, D.J. Williams), *J. Am. Chem. Soc.* **1997**, *119*, 12503–12513. [60]
467. Molecular meccano 24. Multiple stranded and multiply encircled pseudorotaxanes (P.R. Ashton, M.C.T. Fyfe, P.T. Glink, S. Menzer, J.F. Stoddart, A.J.P. White, D.J. Williams), *J. Am. Chem. Soc.* **1997**, *119*, 12514–12524. [58]
468. The chemistry of cyclic oligosaccharides (S.A. Nepogodiev, J.F. Stoddart) in *Carbohydrate Chemistry*, Ed. G.-J. Boons, Blackie, London, 1998, pp. 323–383.
469. Dendrimers – branching out from curiosities into new technologies (O.A. Matthews, A.N. Shipway, J.F. Stoddart), *Prog. Poly. Sci.* **1998**, *23*, 1–56. [560]
470. Molecular meccano 29. The synthesis and spectroscopic properties of a [2]catenane incorporating an anthracene chromophoric unit (R. Ballardini, V. Balzani, A. Credi, M.T. Gandolfi, D. Marquis, L. Pérez-García, J.F. Stoddart), *Eur. J. Org. Chem.* **1998**, 81–89. [11]
471. Molecular meccano. Part 25. Self-assembly of functionalized [2]catenanes bearing a reactive group on either one or both macrocyclic components – from monomeric [2]catenanes to polycatenanes (S. Menzer, A.J.P. White, D.J. Williams, M. Belohradsky, C. Hamers, F.M. Raymo, A.N. Shipway, J.F. Stoddart), *Macromolecules* **1998**, *31*, 295–307. [61]
472. A chemically and electrochemically switchable [2]catenane incorporating a tetrathiafulvalene unit (M. Asakawa, P.R. Ashton, V. Balzani, A. Credi, C. Hamers, G. Mattersteig, M. Montalti, A.N. Shipway, N. Spencer, J.F. Stoddart, M.S. Tolley, M. Venturi, A.J.P. White, D.J. Williams), *Angew. Chem.* **1998**, *110*, 357–361; *Angew. Chem., Int. Ed.* **1998**, *37*, 333–337. [278]
473. Molecular meccano. Part 23. Self-assembling cyclophanes and catenanes possessing elements of planar chirality (P.R. Ashton, S.E. Boyd, S. Menzer, D. Pasini, F.M. Raymo, N. Spencer, J.F. Stoddart, A.J.P. White, D.J. Williams, P.G. Wyatt), *Chem. Eur. J.* **1998**, *4*, 299–310. [34]

474. Molecular meccano. Part 21. Constitutionally asymmetric and chiral [2]pseudorotaxanes (M. Asakawa, P.R. Ashton, W. Hayes, H.M. Janssen, E.W. Meijer, S. Menzer, D. Pasini, J.F. Stoddart, A.J.P. White, D.J. Williams), *J. Am. Chem. Soc.* **1998**, *120*, 920–931. [44]
475. Molecular meccano. Part 31. The synthesis and spectroscopic properties of macrocyclic polyethers containing two different aromatic moieties and their [2]catenanes incorporating cyclobis(paraquat-*p*-phenylene) (R. Ballardini, V. Balzani, M.T. Gandolfi, R.E. Gillard, J.F. Stoddart, E. Tabellini), *Chem. Eur. J.* **1998**, *4*, 449–459. [21]
476. Molecular meccano. Part 32. Kinetic and thermodynamic effects in the self-assembly of [3]catenanes in solution and solid states (D.B. Amabilino, P.R. Ashton, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1998**, *4*, 460–468. [26]
477. Novel clay-like and helical superstructures generated using arene-arene interactions (M.C.T. Fyfe, J.F. Stoddart, A.J.P. White, D.J. Williams), *New J. Chem.* **1998**, 155–157. [3]
478. Molecular meccano. Part 33. Rotaxane or pseudorotaxane? That is the question! (P.R. Ashton, I. Baxter, M.C.T. Fyfe, F.M. Raymo, N. Spencer, J.F. Stoddart, A.J.P. White, D.J. Williams), *J. Am. Chem. Soc.* **1998**, *120*, 2297–2307. [231]
479. A molecular chameleon: chromophoric sensing by a self-complexing molecular assembly (R. Wolf, M. Asakawa, P.R. Ashton, M. Gómez-López, C. Hamers, S. Menzer, I.W. Parsons, N. Spencer, J.F. Stoddart, M.S. Tolley, D.J. Williams), *Angew. Chem.* **1998**, *110*, 1018–1022; *Angew. Chem., Int. Ed.* **1998**, *37*, 975–979. [37]
480. Synthesis and study of dendritic polysaccharides (N. Jayaraman, S.A. Nepogodiev, J.F. Stoddart), *Carbohydrates in Europe 20, 1998*, pp 30–33.
481. Self-assembling supermolecules and supramolecular arrays based on metal coordination (F.M. Raymo, J.F. Stoddart), *Curr. Op. Coll. Interface Sci.* **1998**, *3*, 150–159. [18]
482. Molecular meccano. Part 34. Combining different hydrogen bonding motifs to self-assemble interwoven superstructures (P.R. Ashton, M.C.T. Fyfe, S.K. Hickingbottom, S. Menzer, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1998**, *4*, 577–589. [54]
483. Molecular meccano. Part 35. Cyclophanes and [2]catenanes as ligands for transition metal complexes. Synthesis, structure, absorption spectra, excited state, and electrochemical properties (P.R. Ashton, V. Balzani, A. Credi, O. Kocian, D. Pasini, L. Prodi, N. Spencer, J.F. Stoddart, M.S. Tolley, M. Venturi, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1998**, *4*, 590–607. [56]
484. Supramolecular daisy chains (P.R. Ashton, I. Baxter, S.J. Cantrill, M.C.T. Fyfe, P.T. Glink, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew. Chem.* **1998**, *110*, 1344–1347; *Angew. Chem., Int. Ed.* **1998**, *37*, 1294–1297. [158]
485. Molecular meccano 30. Oligocatenanes made to order (D.B. Amabilino, P.R. Ashton, V. Balzani, S.E. Boyd, A. Credi, J.Y. Lee, S. Menzer, J.F. Stoddart, M. Venturi, D.J. Williams), *J. Am. Chem. Soc.* **1998**, *120*, 4295–4307. [122]
486. The synthesis and characterization of a new family of polyamide dendrimers (P.R. Ashton, D.W. Anderson, C.L. Brown, A.N. Shipway, J.F. Stoddart, M.S. Tolley), *Chem. Eur. J.* **1998**, *4*, 781–795. [45]
487. Stable Langmuir and Langmuir-Blodgett films of fullerene-glycodendron conjugates (F. Cardullo, F. Diederich, L. Echegoyen, T. Habicher, N. Jayaraman, R.M. Leblanc, J.F. Stoddart, S. Wang), *Langmuir* **1998**, *14*, 1955–1959. [149]
488. Synthesis of carbohydrate-containing dendrimers. Part 6. Synthesis and biological evaluation of α -D-mannopyranoside-containing dendrimers (P.R. Ashton, E.F. Hounsell, N. Jayaraman, T.M. Nilsen, N. Spencer, J.F. Stoddart, M. Young), *J. Org. Chem.* **1998**, *63*, 3429–2437. [108]
489. Concept transfer from the life sciences into materials science (P.T. Glink, J.F. Stoddart), *Pure Appl. Chem.* **1998**, *70*, 419–424. [15]
490. Molecular meccano. Part 37. Self-assembly and self-organization of self-recognizing cyclophanes (P.R. Ashton, A. Chemin, C.G. Claessens, S. Menzer, J.F. Stoddart, A.J.P. White, D.J. Williams), *Eur. J. Org. Chem.* **1998**, 969–981. [17]

491. Molecular meccano. Part 38. Enantioselective discrimination in the self-assembly of [2]pseudorotaxanes (M. Asakawa, H.M. Janssen, E.W. Meijer, D. Pasini, J.F. Stoddart), *Eur. J. Org. Chem.* **1998**, 983–986. [21]
492. Noncovalent synthesis of donor/acceptor stacks (B Colonna, F.M. Raymo, J.F. Stoddart, D.J. Williams), *Tetrahedron Lett.* **1998**, 39, 5155–5158. [5]
493. From supramolecular complexes to interlocked molecular compounds (F.M. Raymo, J.F. Stoddart), *Chemtracts – Organic Chemistry* **1998**, 11, 491–511.
494. Mechanically-interlocked molecular systems incorporating cyclodextrins (S.A. Nepogodiev, J.F. Stoddart) in *Organic Synthesis Highlights III*, Eds. J. Mulzer, H. Waldmann, Wiley-VCH, Weinheim, 1998, pp 374–381.
495. A new slippage synthesis (P.R. Ashton, M.C.T. Fyfe, C. Schiavo, J.F. Stoddart, A.J.P. White, D.J. Williams), *Tetrahedron Lett.* **1998**, 39, 5455–5458. [25]
496. Synthesis of carbohydrate-containing dendrimers. Part 7. Synthesis of oligosaccharide dendrimers (B Colonna, V.D. Harding, S.A. Nepogodiev, F.M. Raymo, N. Spencer, J.F. Stoddart), *Chem. Eur. J.* **1998**, 4, 1244–1254. [55]
497. Synthetic cyclic oligosaccharides (G. Gattuso, S.A. Nepogodiev, J.F. Stoddart), *Chem. Rev.* **1998**, 98, 1919–1958. [106]
498. Cyclodextrin-based catenanes and rotaxanes (S.A. Nepogodiev, J.F. Stoddart), *Chem. Rev.* **1998**, 98, 1959–1976. [804]
499. Self-assembling supramolecular daisy chains (P.R. Ashton, I.W. Parsons, F.M. Raymo, J.F. Stoddart, A.J.P. White, D.J. Williams, R. Wolf), *Angew. Chem.* **1998**, 110, 2016–2019; *Angew. Chem., Int. Ed.* **1998**, 37, 1913–1916. [113]
500. Molecular machines (V. Balzani, M. Gómez-López, J.F. Stoddart), *Acc. Chem. Res.* **1998**, 31, 405–414. [754]
501. Supramolecular Science. Where it is and where it is going (D.N. Reinhoudt, J.F. Stoddart, R. Ungaro), *Chem. Eur. J.* **1998**, 4, 1349–1351. [46]
502. Molecular meccano. Part 39. Doubly-docked pseudorotaxanes (P.R. Ashton, M.C.T. Fyfe, M.-V. Martínez-Díaz, S. Menzer, C. Schiavo, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1998**, 4, 1523–1534. [43]
503. Molecular crystals: Editorial overview (L. Lieserowitz, J.F. Stoddart), *Curr. Op. Solid State & Mater. Sci.* **1998**, 3, 397–398. [1]
504. Synthesis of spacer-armed glycodendrimers based on the modification of poly(propylene imine) dendrimers (H.W.I. Peerlings, S.A. Nepogodiev, J.F. Stoddart, E.W. Meijer), *Eur. J. Org. Chem.* **1998**, 1879–1886. [29]
505. Molecular meccano. Part 28. Origins of selectivity in molecular and supramolecular entities. Solvent and electrostatic control of the translational isomerism in [2]catenanes (F.M. Raymo, K.N. Houk, J.F. Stoddart), *J. Org. Chem.* **1998**, 63, 6523–6528. [58]
506. Molecular meccano. Part 40. The mechanism of the slippage approach to rotaxanes – Origin of the “all-or-nothing” substitution effect (F.M. Raymo, K.N. Houk, J.F. Stoddart), *J. Am. Chem. Soc.* **1998**, 120, 9318–9322. [118]
507. Molecular meccano. Part 36. Aggregation of self-assembling branched [n]rotaxanes (D.B. Amabilino, M. Asakawa, P.R. Ashton, R. Ballardini, V. Balzani, M. Belohradsky, A. Credi, M. Higuchi, F.M. Raymo, T. Shimizu, J.F. Stoddart, M. Venturi, K. Yase), *New J. Chem.* **1998**, 959–972. [52]
508. Molecular meccano. Part 42. Main-chain and pendant poly([2]catenanes) incorporating complementary π -electron rich and deficient components (C. Hamers, F.M. Raymo, J.F. Stoddart), *Eur. J. Org. Chem.* **1998**, 2109–2117. [29]
509. Simple molecular-level machines. Interchange between different threads in pseudorotaxanes (A. Credi, V. Balzani, S.J. Langford, M. Montalti, F.M. Raymo, J.F. Stoddart), *New J. Chem.* **1998**, 1061–1065. [73]
510. A Poly(bis[2]catenane containing a combination of covalent, mechanical, and coordinative bonds (C. Hamers, O. Kocian, F.M. Raymo, J.F. Stoddart), *Adv. Mater.* **1998**, 10, 1366–1369. [44]

511. Molecular meccano. Part 43. Hammett correlations “beyond the molecule” (P.R. Ashton, M.C.T. Fyfe, S.K. Hickingbottom, J.F. Stoddart, A.J.P. White, D.J. Williams), *J. Chem. Soc., Perkin Trans. 2* **1998**, 2117–2128. [86]
512. Molecular meccano. Part 45. High yielding template-directed synthesis of [2]rotaxanes (J.A. Bravo, F.M. Raymo, J.F. Stoddart, A.J.P. White, D.J. Williams), *Eur. J. Org. Chem.* **1998**, 2565–2571. [42]
513. Supramolecular synthesis with carboxylic substituted secondary dialkylammonium salts and macrocyclic ethers (M.C.T. Fyfe, J.F. Stoddart, A.N. Collins, D.J. Williams), *Molecular Recognition and Inclusion*, Lyon, 1996, Ed. A.W. Coleman, Kluwer, the Netherlands, 1998, pp 333–336.
514. Towards rotaxane-based metal-ion sensors (O.A. Matthews, J.F. Stoddart, N.D. Tinker), *Molecular Recognition and Inclusion*, Lyon, 1996, Ed. A.W. Coleman, Kluwer, The Netherlands, 1998, pp 411–414.
515. Macrocyclic polyethers as ditopic co-receptors for dual-centred secondary dialkylammonium guests: from double-stranded to single-stranded pseudorotaxanes (C. Schiavo, J.F. Stoddart, D.J. Williams), *Molecular Recognition and Inclusion*, Lyon, 1996, Ed. A.W. Coleman, Kluwer, The Netherlands 1998, pp 491–494.
516. Synthetic supramolecular chemistry (S.J. Cantrill, M.C.T. Fyfe, F.M. Raymo, J.F. Stoddart), in “Current Challenges on Large Supramolecular Assemblies”, Ed. G. Tsoucaris, Kluwer, The Netherlands, 1998, pp 17–35. [2]
517. Molecular meccano. Part 41. Selective self-assembly and acid-base controlled de-/rethreading of pseudorotaxanes constructed using multiple recognition motifs (P.R. Ashton, R. Ballardini, V. Balzani, M.C.T. Fyfe, M.T. Gandolfi, M.-V. Martínez-Díaz, M. Morosini, C. Schiavo, K. Shibata, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1998**, 4, 2332–2341. [38]
518. An acid/base-controlled supramolecular switch (O.A. Matthews, F.M. Raymo, J.F. Stoddart, A.J.P. White, D. J. Williams), *New J. Chem.* **1998**, 1131–1134. [24]
519. A light-fueled “piston-cylinder” molecular-level machine (P.R. Ashton, V. Balzani, O. Kocian, L. Prodi, N. Spencer, J. F. Stoddart), *J. Am. Chem. Soc.* **1998**, 120, 11190–11191. [107]
520. Molecular meccano. Part 46. Acid-base controllable molecular shuttles (P.R. Ashton, R. Ballardini, V. Balzani, I. Baxter, A. Credi, M.C.T. Fyfe, M.T. Gandolfi, M. Gómez-López, M.-V. Martinez-Díaz, A. Piersanti, N. Spencer, J.F. Stoddart, M. Venturi, A.J.P. White, D.J. Williams), *J. Am. Chem. Soc.* **1998**, 120, 11932–11942. [323]
521. Fullerenes in supramolecular chemistry (M. Gómez-López, J.-P. Bourgeois, F. Cardullo, F. Diederich, L. Echegoyen, T. Habicher, A. Herrmann, U. Jona, R.M. Leblanc, N. Jayaraman, J.-F. Nierengarten, H. Ringsdorf, J.-P. Sauvage, J.F. Stoddart, C. Thilgen), in *Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials*, ECS Proceedings Volume 98-8, Fullerenes Volume 6, 1998, pp 1057–1072. [0]
522. Ru(II)-Polypyridine complexes covalently linked to electron acceptors as wires for light-driven pseudorotaxane-type molecular machines (P.R. Ashton, R. Ballardini, V. Balzani, E.C. Constable, A. Credi, O. Kocian, S.J. Langford, L. Prodi, J.A. Preece, E.R. Schofield, N. Spencer, J.F. Stoddart, S. Wenger), *Chem. Eur. J.* **1998**, 4, 2413–2422. [91]
523. (Supra)molecular systems based upon crown ethers and secondary dialkylammonium ions (M.C.T. Fyfe, J.F. Stoddart), *Adv. Supramol. Chem.* **1999**, 5, 1–53.
524. Molecular meccano. Part 47. [C-H···O] Interactions as a control element in supramolecular complexes: experimental and theoretical evaluation of receptor affinities for the binding of bipyridinium-based guests by catenated hosts (K.N. Houk, S. Menzer, S.P. Newton, F.M. Raymo, J.F. Stoddart, D.J. Williams), *J. Am. Chem. Soc.* **1999**, 121, 1479–1487. [197]
525. Probing self-assembly by NMR (S.J. Cantrill, M.C.T. Fyfe, F.M. Raymo, J.F. Stoddart) in *Applications of NMR to the Study of Structure and Dynamics of Supramolecular Complexes*, Kluwer, Dordrecht, 1999, pp 1–18. [2]
526. Interwoven supramolecular arrays via the noncovalent polymerization of pseudorotaxanes (M.C.T. Fyfe, J.F. Stoddart), *Coord. Chem. Rev.* **1999**, 183, 139–155. [64]
527. Molecular meccano. Part 44. Photoactive azobenzene-containing supramolecular complexes and related interlocked molecular compounds (M. Asakawa, P.R. Ashton, V. Balzani, C.L. Brown, A. Credi, O.A. Matthews,

- S.P. Newton, F.M. Raymo, A.N. Shipway, N. Spencer, A. Quick, J.F. Stoddart, M.S. Tolley, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **1999**, *5*, 860–875. [87]
528. Hydrodynamic properties of carbohydrate-coated dendrimers (G.M. Pavlov, E.V. Korneeva, K. Jumel, S.E. Harding, E.W. Meijer, H.W.I. Peerlings, J.F. Stoddart, S.A. Nepogodiev), *Carbohydrate Polymers* **1999**, *38*, 195–202. [36]
529. Molecular Meccano. Part 48. Probing co-conformational changes in chiral [2]rotaxanes by ¹H NMR spectroscopy (P.R. Ashton, J.A. Bravo, F.M. Raymo, J.F. Stoddart, A.J.P. White, D.J. Williams), *Eur. J. Org. Chem.* **1999**, 899–908. [33]
530. Cyclodextrins (D. Armspach, G. Gattuso, R. Königer, J.F. Stoddart) in *Bioorganic Chemistry: Carbohydrates*, Ed. S.M. Hecht, Oxford University Press, New York, 1999, pp 458–488.
531. Interlocked macromolecules (F.M. Raymo, J.F. Stoddart), *Am. Chem. Soc., Polym. Mater. Sci. Eng.* **1999**, *80*, 33–34.
532. A simple and efficient method for the preparation of 1-benzyloxy-5-hydroxynaphthalene (J. Becher, O.A. Matthews, M.B. Nielsen, F.M. Raymo, J.F. Stoddart), *Synlett* **1999**, 330–332. [17]
533. Molecular meccano. Part 53. A three-pole supramolecular switch (P.R. Ashton, V. Balzani, J. Becher, A. Credi, M.C.T. Fyfe, G. Mattersteig, S. Menzer, M.B. Nielsen, F.M. Raymo, J.F. Stoddart, M. Venturi, A.J.P. White, D.J. Williams), *J. Am. Chem. Soc.* **1999**, *121*, 3951–3957. [219]
534. Secondary dibenzylammonium ion binding by [24]crown-8 and [25]crown-8 macrocycles (P.R. Ashton, R.A. Bartsch, S.J. Cantrill, R.E. Hanes, Jr., S.K. Hickingbottom, J.N. Lowe, J.A. Preece, J.F. Stoddart, V.S. Talanov, Z.-H. Wang), *Tetrahedron Lett.* **1999**, *40*, 3661–3664. [51]
535. A new protocol for rotaxane synthesis (S.J. Cantrill, D.A. Fulton, M.C.T. Fyfe, J.F. Stoddart, A.J.P. White, D.J. Williams), *Tetrahedron Lett.* **1999**, *40*, 3669–3672. [39]
536. Heterosupramolecular chemistry. Programmed pseudorotaxane assembly at the surface of a nanocrystal (D. Fitzmaurice, S.N. Rao, J.A. Preece, J.F. Stoddart, S. Wenger, N. Zaccheroni), *Angew. Chem., Int. Ed.* **1999**, *38*, 1147–1150. [92]
537. Molecular meccano. Part 49. Pseudorotaxanes and catenanes containing a redox-active unit derived from tetrathiafulvalene (M. Asakawa, P.R. Ashton, V. Balzani, S.E. Boyd, A. Credi, G. Mattersteig, S. Menzer, M. Montalti, F.M. Raymo, C. Ruffilli, J.F. Stoddart, M. Venturi, D.J. Williams), *Eur. J. Org. Chem.* **1999**, 985–994. [63]
538. Molecular meccano. Part 51. Diastereoselective self-assembly of [2]catenanes (P.R. Ashton, A.M. Heiss, D. Pasini, F.M. Raymo, A.N. Shipway, J.F. Stoddart), *Eur. J. Org. Chem.* **1999**, 995–1004. [31]
539. Molecular Meccano 52. Template-directed synthesis of a rotacatenane (D.B. Amabilino, J.A. Bravo, F.M. Raymo, J.F. Stoddart, D.J. Williams), *Eur. J. Chem. Org.* **1999**, 1295–1302. [32]
540. Molecular meccano. Part 50. Diazapyrenium-containing catenanes and rotaxanes (P.R. Ashton, S.E. Boyd, A. Brindle, S.J. Langford, S. Menzer, L. Pérez-García, J.A. Preece, F.M. Raymo, N. Spencer, J.F. Stoddart, A.J.P. White, D.J. Williams), *New J. Chem.* **1999**, 587–602. [58]
541. X-Ray crystallographic studies on the noncovalent synthesis of supermolecules (M.C.T. Fyfe, J.F. Stoddart, D.J. Williams), *Struct. Chem.* **1999**, *10*, 243–259. [28]
542. Organic template-directed synthesis of catenanes, rotaxanes, and knots (F.M. Raymo, J.F. Stoddart), in *Molecular Catenanes, Rotaxanes and Knots*. Eds. C.O. Dietrich-Buchecker, J.-P. Sauvage, Wiley-VCH, Weinheim, 1999, pp 143–176.
543. Interlocked macromolecules (F. M. Raymo, J.F. Stoddart), *Chem. Rev.* **1999**, *99*, 1643–1663. [627]
544. Triphenylphosphonium-stoppered [2]rotaxanes (S.J. Rowan, S.J. Cantrill, J.F. Stoddart), *Org. Lett.* **1999**, *1*, 129–132. [75]
545. Rotaxane construction with a binaphthol-derived crown ether (S.J. Cantrill, M.C.T. Fyfe, A.M. Heiss, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Commun.* **1999**, 1251–1252. [27]
546. Electronically configurable molecular-based logic gates (C.P. Collier, E.W. Wong, M. Belohradsky, F.M. Raymo, J.F. Stoddart, P.J. Kuekes, R.S. Williams, J.R. Heath), *Science* **1999**, *285*, 391–394. [1290]

547. The self-assembly of fullerene-containing [2]pseudorotaxanes: formation of a supramolecular C-60 dimer (F. Diederich, L. Echegoyen, M. Gómez-López, R. Kessinger, J.F. Stoddart), *J. Chem. Soc., Perkin Trans. 2* **1999**, 1577–1586. [59]
548. Synthesis and studies of sugar-coated discotic liquid crystals (J. Barbéra, A.C. Gracés, N. Jayaraman, A. Omenat, J.-L. Serrano, J.F. Stoddart), *Am. Chem. Soc., Polym. Preprints* **1999**, 40(2), 488–489.
549. Wittig reactions on phosphonium-stoppered [2]rotaxanes. A new route to macromolecular daisy chains (S.J. Rowan, S.J. Cantrill, J.F. Stoddart), *Am. Chem. Soc., Polym. Preprints* **1999**, 40(2), 1119–1120.
550. Supramolecular daisy chains (S.J. Cantrill, J.F. Stoddart, D.J. Williams), *Am. Chem. Soc., Polym. Preprints* **1999**, 40(2), 1130–1131.
551. Templated synthesis of catenanes and rotaxanes (F.M. Raymo, J.F. Stoddart) in *Templated Organic Synthesis*, Eds. F. Diederich, P.J. Stang, Wiley-VCH: Weinheim, 1999, pp 75–104.
552. Rotaxane formation under thermodynamic control (S.J. Cantrill, S.J. Rowan, J.F. Stoddart), *Org. Lett.* **1999**, 1, 1363–1366. [95]
553. Thermodynamic synthesis of rotaxanes by imine exchange (S.J. Rowan, J.F. Stoddart), *Org. Lett.* **1999**, 1, 1913–1916. [80]
554. Anion-orchestrated formation in the crystalline state of [2]pseudorotaxane arrays (P.R. Ashton, S.J. Cantrill, J.A. Preece, J.F. Stoddart, Z.-H. Wang, A.J.P. White, D.J. Williams), *Org. Lett.* **1999**, 1, 1917–1920. [23]
555. The introduction of [2]catenanes into Langmuir Films and Langmuir-Blodgett multilayers - A possible strategy for molecular information storage materials (C.L. Brown, U. Jonas, J.A. Preece, H. Ringsdorf, M. Seitz, J.F. Stoddart), *Langmuir* **2000**, 16, 1924–1930. [61]
556. Molecular and supramolecular nanomachines (M. Gómez-López, J.F. Stoddart), in *Handbook of Nanostructured Materials and Nanotechnology*, Ed. H.S. Nalwa, Volume 5. Organics, Polymers, and Biological Materials, Academic Press, San Diego, 2000, pp 225–275.
557. Tribenzo[27]crown-9: A new ring for dibenzylammonium rods (S.J. Cantrill, M.C.T. Fyfe, A.M. Heiss, J.F. Stoddart, A.J.P. White, D.J. Williams), *Org. Lett.* **2000**, 2, 61–64. [28]
558. Thermoregulated optical properties of peptidic pseudorotaxanes (J.-C. Meillon, N. Voyer, E. Biron, F. Sanschagrin, J.F. Stoddart), *Angew. Chem., Int. Ed.* **2000**, 39, 143–145. [32]
559. A self-complexing [2]catenane (B. Cabezon, J. Cao, F.M. Raymo, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew. Chem., Int. Ed.* **2000**, 39, 148–151. [22]
560. Precision molecular grafting: Exchanging surrogate stoppers in [2]rotaxanes (S.J. Rowan, J.F. Stoddart), *J. Am. Chem. Soc.* **2000**, 122, 164–165. [68]
561. Molecular meccano. Part 56. Anthracene-containing [2]rotaxanes: Synthesis, spectroscopic, and electrochemical properties (R. Ballardini, V. Balzani, W. Dehaen, A.E. Dell'Erba, F.M. Raymo, J.F. Stoddart, M. Venturi), *Eur. J. Org. Chem.* **2000**, 591–602. [67]
562. Molecular meccano. Part 57. Template-directed syntheses, spectroscopic properties, and electrochemical behavior of [n]catenanes (P.R. Ashton, V. Baldoni, V. Balzani, C.G. Claessens, A. Credi, H.D.A. Hoffmann, F.M. Raymo, J.F. Stoddart, M. Venturi, A.J.P. White, D.J. Williams), *Eur. J. Org. Chem.* **2000**, 1121–1130. [34]
563. Molecular meccano. Part 54. The switching of pseudorotaxanes and catenanes incorporating a tetrathiafulvalene unit by redox and chemical inputs (V. Balzani, A. Credi, G. Mattersteig, O.A. Matthews, F. M. Raymo, J.F. Stoddart, M. Venturi, A.J.P. White, D.J. Williams), *J. Org. Chem.* **2000**, 65, 1924–1936. [230]
564. Molecular meccano. Part 55. Molecular shuttles by the protecting group approach (J. Cao, M.C.T. Fyfe, J.F. Stoddart, G.R.L. Cousins, P.T. Glink), *J. Org. Chem.* **2000**, 65, 1937–1946. [99]
565. Molecular meccano. Part 58. The electrochemically-driven decomplexation/recomplexation of inclusion adducts of ferrocene derivatives with an electron-accepting receptor (V. Balzani, J. Becher, A. Credi, M.B. Nielsen, F.M. Raymo, J.F. Stoddart, A.M. Talarico, M. Venturi), *J. Org. Chem.* **2000**, 65, 1947–1956. [28]
566. Toward daisy chain polymers: 'Wittig exchange' of stoppers in [2]rotaxane monomers (S.J. Rowan, S.J. Cantrill, J.F. Stoddart, A.J.P. White, D.J. Williams), *Org. Lett.* **2000**, 2, 759–762. [90]

567. Supramolecular phthalocyanine dimers based on the secondary dialkylammonium cation/dibenzo-24-crown-8 recognition motif (M.V. Martínez-Díaz, M.S. Rodríguez-Morgade, M.C. Feiters, R.J.M. Nolte, J.F. Stoddart, T. Torres), *Org. Lett.* **2000**, *2*, 1057–1060. [42]
568. An efficient two-step synthesis of cyclodextrin-based carbohydrate cluster compounds (D.A. Fulton, J.F. Stoddart), *Org. Lett.* **2000**, *2*, 1113–1116. [84]
569. Constructing molecular machinery. A chemically-switchable [2]catenane (V. Balzani, A. Credi, S.J. Langford, F.M. Raymo, J.F. Stoddart, M. Venturi), *J. Am. Chem. Soc.* **2000**, *122*, 3542–3543. [104]
570. An extremely stable interwoven supramolecular bundle (M.C.T. Fyfe, J.N. Lowe, J.F. Stoddart, D.J. Williams), *Org. Lett.* **2000**, *2*, 1221–1224. [32]
571. Novel ether-linked secondary face-to-face 2-2' and 3-3' β -cyclodextrin dimers (S.-H. Chiu, D.C. Myles, R.L. Garrell, J.F. Stoddart), *J. Org. Chem.* **2000**, *65*, 2792–2796. [51]
572. Polymers with intertwined superstructures and interlocked structures (F.M. Raymo, J.F. Stoddart), in *Supramolecular Polymers*, Ed. A. Ciferri, Marcel Dekker, New York, 2000, pp 323–357.
573. Molecular meccano. Part 59. Self-complementary [2]catenanes and their related [3]catenanes (B. Cabezón, J. Cao, F.M. Raymo, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **2000**, *6*, 2262–2273. [37]
574. Molecular meccano. Part 60. The influence of macrocyclic polyether constitution upon ammonium ion / crown ether recognition processes (S.J. Cantrill, D.A. Fulton, A.M. Heiss, A.R. Pease, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **2000**, *6*, 2274–2287. [82]
575. Fabrication and transport properties of single-molecule thick electrochemical junctions (E.W. Wong, C.P. Collier, M. Belohradsky, F.M. Raymo, J.F. Stoddart, J.R. Heath), *J. Am. Chem. Soc.* **2000**, *122*, 5831–5840. [156]
576. Heterosupramolecular chemistry: Recognition initiated and inhibited silver nanocrystal aggregation by pseudorotaxane assembly (D. Ryan, S.N. Rao, H. Rensmo, D. Fitzmaurice, J.A. Preece, S. Wenger, J.F. Stoddart, N. Zaccheroni), *J. Am. Chem. Soc.* **2000**, *122*, 6252–6257. [66]
577. An enlarged bis-bipyridinium cyclophane-Au nanoparticle superstructure for selective electrochemical sensing applications (M. Lahav, A.N. Shipway, I. Willner, M.B. Nielsen, J.F. Stoddart), *J. Electroanal. Chem.* **2000**, *482*, 217–221. [62]
578. Toward the synthesis of large oligosaccharide-based dendrimers (W.B. Turnbull, A.R. Pease, J.F. Stoddart), *ChemBioChem* **2000**, *1*, 70–74. [38]
579. Tetrathiafulvalenenaphthalenophanes: Planar chirality and *cis/trans* photoisomerization (R. Ballardini, V. Balzani, J. Becher, A. Di Fabio, M.T. Gandolfi, G. Mattersteig, M.B. Nielsen, F.M. Raymo, S.J. Rowan, J.F. Stoddart, A.J.P. White, D.J. Williams), *J. Org. Chem.* **2000**, *65*, 4120–4126. [37]
580. Dynamic hemicarcerands and hemicarceplexes (S. Ro, S.J. Rowan, A.R. Pease, D.J. Cram, J.F. Stoddart), *Org. Lett.* **2000**, *2*, 2411–2414. [76]
581. Current/voltage characteristics of monolayers of redox-switchable [2]catenanes on gold (M. Asakawa, M. Higuchi, G. Mattersteig, T. Nakamura, A.R. Pease, F.M. Raymo, T. Shimizu, J.F. Stoddart), *Adv. Mater.* **2000**, *12*, 1099–1102. [101]
582. A [2]catenane-based solid state electronically reconfigurable switch (C.P. Collier, G. Mattersteig, E.W. Wong, Y. Luo, K. Beverly, J. Sampaio, F.M. Raymo, J.F. Stoddart, J.R. Heath), *Science* **2000**, *289*, 1172–1175. [1166]
583. Toward interlocked molecules beyond catenanes and rotaxanes (T. Chang, A.M. Heiss, S.J. Cantrill, M.C.T. Fyfe, A.R. Pease, S.J. Rowan, J.F. Stoddart, D.J. Williams), *Org. Lett.* **2000**, *2*, 2943–2946. [30]
584. Ammonium ion binding with pyridine-containing crown ethers (T. Chang, A.M. Heiss, S.J. Cantrill, M.C.T. Fyfe, A.R. Pease, S.J. Rowan, J.F. Stoddart, A.J.P. White, D.J. Williams), *Org. Lett.* **2000**, *2*, 2947–2950. [46]
585. The idiosyncrasies of tetrabenzo[24]crown-8 in the solid state (S.J. Cantrill, J.A. Preece, J.F. Stoddart, Z.-H. Wang, A.J.P. White, D.J. Williams), *Tetrahedron* **2000**, *56*, 6675–6681. [42]
586. The reversible complexation of a tetrathiafulvalene functionalised self-assembled monolayer by cyclobis(paraquat-*p*-phenylene) (G. Cooke, F.M.A. Duclairoir, V.M. Rotello, J.F. Stoddart), *Tetrahedron Lett.* **2000**, *41*, 8163–8166. [23]

587. Artificial molecular machines (V. Balzani, A. Credi, F.M. Raymo, J.F. Stoddart), *Angew. Chem., Int. Ed.* **2000**, *39*, 3349–3391. [2062]
588. Molecular meccano. Part 61. A photochemically driven molecular-level abacus (P.R. Ashton, R. Ballardini, V. Balzani, A. Credi, R. Dress, E. Ishow, O. Kocian, J.A. Preece, N. Spencer, J.F. Stoddart, M. Venturi, S. Wenger), *Chem. Eur. J.* **2000**, *6*, 3558-3574. [288]
589. Slippage and constrictive binding (M.C.T. Fyfe, F.M. Raymo, J.F. Stoddart) in Stimulating Concepts in Chemistry, Eds. M. Shibasaki, J.F. Stoddart, F. Vögtle, Wiley-VCH: Weinheim, 2000, pp. 211–220.
590. Self-assembly of an amphiphilic [2]rotaxane incorporating a tetrathiafulvalene unit (J.O. Jeppesen, J. Perkins, J. Becher, J.F. Stoddart), *Org. Lett.* **2000**, *2*, 3547-3550. [52]
591. A rotaxane-like complex with controlled-release characteristics (S.-H. Chiu, S.J. Rowan, S.J. Cantrill, P.T. Glink, R.L. Garrell, J.F. Stoddart), *Org. Lett.* **2000**, *2*, 3631-3634. [47]
592. A molecular meccano kit (S.J. Cantrill, A.R. Pease, J.F. Stoddart), *J. Chem. Soc., Dalton Trans.* **2000**, 3715-3734. [168]
593. Controlled dethreading/rethreading of a scorpion-like pseudorotaxane and a related macrobicyclic self-complexing system (V. Balzani, P. Ceroni, A. Credi, M. Gómez-López, C. Hamers, J.F. Stoddart, R. Wolf), *New J. Chem.* **2001**, *25*, 25-31. [34]
594. Macrocycles, pseudorotaxanes and catenanes containing a pyrrolo-tetrathiafulvalene unit. Absorption spectra, luminescence properties, redox behavior (R. Ballardini, V. Balzani, A.D. Fabio, M.T. Gandolfi, J. Becher, J. Lau, M.B. Nielsen, J.F. Stoddart), *New J. Chem.* **2001**, *25*, 293-298. [30]
595. Sugar-coated discotic liquid crystals (J. Barberá, A.C. Garces, N. Jayaraman, A. Omenat, J.L. Serrano, J.F. Stoddart), *Adv. Mater.* **2001**, *13*, 175–180. [42]
596. Tetrathiafulvalene-containing pseudorotaxanes formed between dibenzylammonium salts and crown ethers (P.R. Ashton, J. Becher, M.C.T. Fyfe, M.B. Nielsen, J.F. Stoddart, A.J.P. White, D.J. Williams), *Tetrahedron* **2001**, *59*, 947-956. [18]
597. Molecular Meccano. Part 62. Azopyridinium-containing [2]pseudorotaxanes and hydrazopyridinium-containing [2]catenanes (P.R. Ashton, C.L. Brown, J. Cao, J.Y. Lee, S.P. Newton, F.M. Raymo, J.F. Stoddart, A.J.P. White, D.J. Williams), *Eur. J. Org. Chem.* **2001**, 957–965. [19]
598. Slow shuttling in an amphiphilic bistable [2]rotaxane incorporating a tetrathiafulvalene unit (J.O. Jeppesen, J. Perkins, J. Becher, J.F. Stoddart), *Angew. Chem., Int. Ed.* **2001**, *40*, 1216–1221. [152]
599. Preparation and properties of polymer-wrapped single-walled carbon nanotubes (A. Star, J.F. Stoddart, D. Steuerman, M. Diehl, A. Boukai, E.W. Wong, X. Yang, S.-W. Chung, H. Choi, J.R. Heath), *Angew. Chem., Int. Ed.* **2001**, *40*, 1721–1725. [878]
600. The balance between electronic and steric effects in the template-directed synthesis of [2]catenanes (M. Pérez-Alvarez, F.M. Raymo, S.J. Rowan, D. Schiraldi, J.F. Stoddart, A.J.P. White, D.J. Williams), *Tetrahedron* **2001**, *57*, 3799–3808. [17]
601. Toward artificial molecular devices (J. Perkins, C.P. Collier, J.R. Heath, J.O. Jeppesen, Y. Luo, K.A. Nielsen, A.R. Pease, J.F. Stoddart, E.W. Wong), *Molecular Electronics and Bioelectronics* **2001**, *12*, 69(23)–74(28).
602. Template-directed synthesis of a [2]rotaxane by clipping under thermodynamic control of a crown ether-like macrocycle around a dialkylammonium ion (P.T. Glink, A.I. Oliva, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew. Chem., Int. Ed.* **2001**, *40*, 1870–1875. [150]
603. Binding studies between tetrathiafulvalene derivatives and cyclobis(paraquat-*p*-phenylene), M.B. Nielsen, J.O. Jeppesen, J. Lau, C. Lomholt, D. Damgaard, J.P. Jacobsen, J. Becher, J.F. Stoddart), *J. Org. Chem.* **2001**, *66*, 3559–3563. [119]
604. Switching devices based on interlocked molecules (A.R. Pease, J.O. Jeppesen, J.F. Stoddart, Y. Luo, C.P. Collier, J.R. Heath), *Acc. Chem. Res.* **2001**, *34*, 433–444. [674]
605. Switchable catenanes and molecular shuttles (F.M. Raymo, J.F. Stoddart) in Molecular Switches, Ed. B.L. Feringa, Wiley-VCH: Weinheim, 2001, pp. 219–248.
606. Computing at the molecular level (A.R. Pease, J.F. Stoddart), *Structure and Bonding* **2001**, *99*, 189–236. [50]

607. Toward interlocked polymers using the Wittig reaction (J.F. Stoddart, S.J. Rowan, S.-H. Chiu, S.J. Cantrill, L. Ridvan, S. Sivakova), *Am. Chem. Soc., Polym. Mater. Sci. Eng. Prepr.* **2001**, *84*, 148–149.
608. Spectroscopic and electrochemical properties of catenanes containing the 2,7-diazapyrenium unit (V. Balzani, A. Credi, S.J. Langford, A. Prodi, J.F. Stoddart, M. Venturi), *Supramol. Chem.* **2001**, *13*, 303–311. [16]
609. Cyclodextrin-based clusters by amide bond formation (D.A. Fulton, A.R. Pease, J.F. Stoddart), *Israel J. Chem.* **2001**, *40*, 325–333. [13]
610. Working supramolecular machines trapped in glass and mounted on a film surface (S. Chia, J. Cao, J.F. Stoddart, J.I. Zink), *Angew. Chem. Int. Ed.* **2001**, *40*, 2447–2451. [108]
611. Molecular meccano. Part 63. Dual mode “co-conformational” switching in catenanes incorporating bipyridinium and dialkylammonium recognition sites (P.R. Ashton, V. Baldoni, V. Balzani, A. Credi, H.D.A. Hoffmann, M.-V. Martínez-Díaz, F.M. Raymo, J.F. Stoddart, M. Venturi), *Chem. Eur. J.* **2001**, *7*, 3482–3493. [74]
612. The magnitude of [C-H···O] hydrogen bonding in molecular and supramolecular assemblies (F.M. Raymo, M.D. Bartberger, K.N. Houk, J.F. Stoddart), *J. Am. Chem. Soc.* **2001**, *123*, 9264–9267. [208]
613. Molecular Meccano. Part 64. Supramolecular daisy chains (S.J. Cantrill, G.J. Youn, J.F. Stoddart, D.J. Williams), *J. Org. Chem.* **2001**, *66*, 6857–6872. [123]
614. Artificial molecular-level machines. Dethreading/rethreading of a pseudorotaxane powered exclusively by light energy (V. Balzani, A. Credi, F. Marchioni, J.F. Stoddart), *Chem. Commun.* **2001**, 1860–1861. Highlighted under Editors' Choice in *Science* **2001**, *293*, 217. [93]
615. Neoglycoconjugates based on cyclodextrins and calixarenes (D.A. Fulton, J.F. Stoddart), *Bioconjugate Chemistry* **2001**, *12*, 655–672. [149]
616. Synthesis of cyclodextrin-based carbohydrate clusters by photoaddition reactions (D.A. Fulton, J.F. Stoddart), *J. Org. Chem.* **2001**, *66*, 8309–8319. [80]
617. Host-guest chemistry aids and abets a stereospecific photodimerization in the solid state (D.G. Amirsakis, M.A. García-Garibay, S.J. Rowan, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew. Chem., Int. Ed.* **2001**, *40*, 4256–4261. [81]
618. Molecular-based electronically switchable tunnel junction devices (C.P. Collier, J.O. Jeppesen, Yi Luo, J. Perkins, E.W. Wong, J.R. Heath, J.F. Stoddart), *J. Am. Chem. Soc.* **2001**, *123*, 12632–12641. [270]
619. Design and synthesis of glycodendrimers (W.B. Turnbull, J.F. Stoddart), *Rev. Mol. Biotech.* **2002**, *90*, 231–255.
620. Making molecular-necklaces from rotaxanes (S.-H. Chiu, S.J. Rowan, S.J. Cantrill, L. Ridvan, P.R. Ashton, R. Garrell, J.F. Stoddart), *Tetrahedron* **2002**, *58*, 807–814. [40]
621. A dendrimer with rotaxane-like mechanical branching (A.M. Elizarov, S.-H. Chiu, P.T. Glink, J.F. Stoddart), *Org. Lett.* **2002**, *4*, 679–682. [58]
622. A ring-in-ring complex (S.-H. Chiu, A.R. Pease, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew. Chem., Int. Ed.* **2002**, *41*, 270–274. [50]
623. Dynamic covalent chemistry (S.J. Rowan, S.J. Cantrill, G.R.L. Cousins, J.K.M. Sanders, J.F. Stoddart) *Angew. Chem., Int. Ed.* **2002**, *41*, 898–952. [1496]
624. Interactions between conjugated polymers and single-walled carbon nanotubes (D.W. Steuerman, A. Star, R. Narizzano, H. Choi, R.S. Ries, C. Nicolini, J.F. Stoddart, J.R. Heath), *J. Phys. Chem.* **2002**, *106*, 3124–3130. [195]
625. Molecular machines (F.M. Raymo, J.F. Stoddart), in *Supramolecular Organization and Materials Design*, Eds. W. Jones, C.N.R. Rao, Cambridge University Press: Cambridge, 2002, pp. 332–362.
626. Ferrocene-containing carbohydrate dendrimers (P.R. Ashton, V. Balzani, M. Clemente-Leon, B. Colonna, A. Credi, N. Jayaraman, F.M. Raymo, J.F. Stoddart, M. Venturi), *Chem. Eur. J.* **2002**, *8*, 673–684. [85]
627. Poised on the brink between a bistable complex and a compound (J.O. Jeppesen, J. Becher, J.F. Stoddart), *Org. Lett.* **2002**, *4*, 557–560. [44]
628. Reversing a rotaxane recognition motif: Threading oligoethylene glycol derivatives through a dicationic cyclophane (S.-H. Chiu, J.F. Stoddart), *J. Am. Chem. Soc.* **2002**, *124*, 4174–4175. [33]

629. Chemistry gets a fillip from molecular recognition and self-assembly processes (J.F. Stoddart, H.-R. Tseng), *Proc. Natl. Acad. Sci. USA* **2002**, *99*, 4797–4800. [157]
630. A supramolecular approach for the formation of fullerene-phthalocyanine dyads (M.V. Martínez-Díaz, N.S. Fender, M.S. Rodríguez-Morgade, M. Gómez-López, F. Diederich, L. Echegoyen, J.F. Stoddart, T. Torres), *J. Mater. Chem.* **2002**, *12*, 2095–2099. [82]
631. Two-dimensional molecular electronics circuits (Y. Luo, C.P. Collier, J.O. Jeppesen, K.A. Nielsen, E. Delonno, G. Ho, J. Perkins, H.-R. Tseng, T. Yamamoto, J.F. Stoddart, J.R. Heath), *ChemPhysChem* **2002**, *3*, 519–525. [487]
632. Synthetic carbohydrate dendrimers. Part 9. Large oligosaccharide-based glycodendrimers (W.B. Turnbull, S.A. Kalovidouris, J.F. Stoddart), *Chem. Eur. J.* **2002**, *8*, 2988–3000. [66]
633. Synthesis and characterization of annulene-fused pseudorotaxanes (J.J. Pak, T.J.R. Weakley, M.M. Haley, D.Y.K. Lau, J.F. Stoddart), *Synthesis* **2002**, 1256–1260. [9]
634. Starched carbon nanotubes (A. Star, D.W. Steuerman, J.R. Heath, J.F. Stoddart), *Angew. Chem., Int. Ed.* **2002**, *41*, 2508–2512. [515]
635. Dispersion and solubilization of single-walled carbon nanotubes with a hyperbranched polymer (A. Star, J.F. Stoddart), *Macromolecules* **2002**, *35*, 7516–7520. [150]
636. Translational isomerism in a [3]catenane and a [3]rotaxane (S.-H. Chiu, A.M. Elizarov, P.T. Glink, J.F. Stoddart), *Org. Lett.* **2002**, *4*, 3561–3564. [32]
637. Self-assembly of dendrimers by slippage (A.M. Elizarov, T. Chang, S.-H. Chiu, J.F. Stoddart), *Org. Lett.* **2002**, *4*, 3565–3568. [56]
638. Glycodendrimers based on cellobiosyl-derived monomers (S.A. Kalovidouris, W.B. Turnbull, J.F. Stoddart), *Can. J. Chem.* **2002**, *80*, 983–991. [9]
639. An efficient approach towards the convergent synthesis of "fully carbohydrate" mannodendrimers (L.V. Backinowsky, P.I. Abronina, A.S. Shashkov, A.A. Grachev, N.K. Kochetkov, S.A. Nepogodiev, J.F. Stoddart), *Chem. Eur. J.* **2002**, *8*, 4412–4423. [30]
640. Post-assembly processing of [2]rotaxanes (S.-H. Chiu, S.J. Rowan, S.J. Cantrill, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **2002**, *8*, 5170–5183. [55]
641. Probing polyvalency in artificial systems exhibiting molecular recognition (D.A. Fulton, S.J. Cantrill, J.F. Stoddart), *J. Org. Chem.* **2002**, *67*, 7968–7981. [35]
642. Photoinduced electron transfer in a triad that can be assembled/disassembled by two different external inputs. Toward molecular-level electrical extension cables (R. Ballardini, V. Balzani, M. Clemente-León, A. Credi, M.T. Gandolfi, E. Ishow, J. Perkins, J.F. Stoddart, H.-R. Tseng, S. Wenger), *J. Am. Chem. Soc.* **2002**, *124*, 12786–12795. [116]
643. Molecular switches and machines using arene building blocks (H.-R. Tseng, J.F. Stoddart), in *Modern Arene Chemistry*, Ed. D. Astruc, Wiley-VCH, Weinheim, 2002, pp. 574–599.
644. Surrogate-stoppered [2]rotaxanes: A new route to larger interlocked architectures (S.J. Rowan, J.F. Stoddart), *Poly. Adv. Tech.* **2002**, *13*, 777–787. [28]
645. An acid-base switchable [2]rotaxane (A.M. Elizarov, S.-H. Chiu, J.F. Stoddart), *J. Org. Chem.* **2002**, *67*, 9175–9181. [124]
646. An hermaphroditic [c2]daisy chain (S.-H. Chiu, S.J. Rowan, S.J. Cantrill, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Commun.* **2002**, 2948–2949. [41]
647. Speed-controlled molecular shuttles (M. Belohradsky, A.M. Elizarov, J.F. Stoddart), *Collect. Czech Chem. Comm.* **2002**, *67*, 1719–1728. [27]
648. Porphyrin-containing glycodendrimers (R. Ballardini, B. Colonna, M.T. Gandolfi, S.A. Kalovidouris, L. Orzel, F.M. Raymo, J.F. Stoddart), *Eur. J. Org. Chem.* **2003**, 288–294. [32]
649. Dynamic chirality: Keen selection in the face of stereochemical diversity in mechanically bonded compounds (H.-R. Tseng, S.A. Vignon, P.C. Celestre, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **2003**, *9*, 543–556. [49]

650. Diastereospecific photochemical dimerization of stilbene-containing daisy chain monomers in solution as well as in the solid state (D.G. Amirsakis, A.M. Elizarov, M.A. Garcia-Garibay, P.T. Glink, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew. Chem.* **2003**, *115*, 1158–1164; *Angew. Chem. Int. Ed.* **2003**, *42*, 1126–1132. [69]
651. Noncovalent side-wall functionalization of single-walled carbon nanotubes (A. Star, Y. Liu, K. Grant, L. Ridvan, J.F. Stoddart, D.W. Steuerman, M.R. Diehl, A. Boukai, J.R. Heath), *Macromolecules* **2003**, *36*, 553–560. [241]
652. Nanoscale molecular-switch devices fabricated by imprint lithography (Y. Chen, D.A.A. Ohlberg, X. Li, D.R. Stewart, R.S. Williams, J.O. Jeppesen, K.A. Nielsen, J.F. Stoddart, D.L. Olynick, E. Anderson), *Appl. Phys. Lett.* **2003**, *82*, 1610–1612. [216]
653. Toward chemically controlled nanoscale molecular machinery (H.-R. Tseng, S.A. Vignon, J.F. Stoddart), *Angew. Chem.* **2003**, *115*, 1529–1533; *Angew. Chem. Int. Ed.* **2003**, *42*, 1491–1495. [197]
654. Nanoscale molecular-switch crossbar circuits (D.R. Stewart, D.A.A. Ohlberg, P. Beck, Y. Chen, R.S. Williams, J.O. Jeppesen, K.A. Nielsen, J.F. Stoddart), *Nanotechnology* **2003**, *14*, 462–468. [483]
655. Toward supramolecular daisy-chain like polymers (T. Chang, J.F. Stoddart), *Polym. Preprints* **2003**, *44*, 602–603.
656. Spontaneous resolution of a non-degenerate donor-acceptor [2]catenane (E. Alcalde, L. Pérez-García, S. Ramos, J.F. Stoddart, S.A. Vignon, A.J.P. White, D.J. Williams), *Mendeleev Comm.* **2003**, 100–102. [8]
657. *In situ* Infrared spectroscopic studies of molecular behavior in nanoelectronic devices (T.J. Huang, A. Flood, C.-W. Chu, S. Kang, T.-F. Guo, T. Yamamoto, H.-R. Tseng, B.-D. Yu, Y. Yang, J.F. Stoddart, C.-M. Ho), *IEEE-NANO* **2003**, *2*, 698–701.
658. Amphiphilic bistable rotaxanes (J.O. Jeppesen, K.A. Nielsen, J. Perkins, S.A. Vignon, A. Di Fabio, R. Ballardini, M.T. Gandolfi, M. Venturi, V. Balzani, J. Becher, J.F. Stoddart), *Chem. Eur. J.* **2003**, *9*, 2982–3007. [135]
659. Redox-induced ring shuttling and evidence for folded structures in long and flexible two-station rotaxanes (T. Yamamoto, H.-R. Tseng, J.F. Stoddart, V. Balzani, A. Credi, F. Marchioni, M. Venturi), *Coll. Czech. Chem. Commun.* **2003**, *68*, 1488–1514. [48]
660. Surface confined pseudorotaxanes with electrochemically controllable complexation properties (M.R. Bryce, G. Cooke, F.M.A. Duclairoir, P. John, D.F. Peregichka, N. Polwart, V.M. Rotello, J.F. Stoddart, H.-R. Tseng), *J. Mater. Chem.* **2003**, *13*, 2111–2117. [44]
661. Kinetic versus thermodynamic control during the formation of [2]rotaxanes by a dynamic template-directed clipping process (M. Horn, J. Ihringer, P.T. Glink, J.F. Stoddart), *Chem. Eur. J.* **2003**, *9*, 4046–4054. [74]
662. In the Twilight Zone between [2]pseudorotaxanes and [2]rotaxanes (J.O. Jeppesen, S.A. Vignon, J.F. Stoddart), *Chem. Eur. J.* **2003**, *9*, 4611–4625. [68]
663. Amplification of dynamic chiral crown ether complexes during cyclic acetal formation (B. Fuchs, A. Nelson, A. Star, J.F. Stoddart, S.B. Vidal), *Angew. Chem., Int. Ed.* **2003**, *42*, 4220–4224. [70]
664. Chemically defined sialoside scaffolds for investigation of multivalent interactions with sialic acid binding proteins (S.A. Kalovidouris, O. Blixt, A. Nelson, S. Vidal, W.B. Turnbull, J.C. Paulson, J.F. Stoddart), *J. Org. Chem.* **2003**, *68*, 8485–8493. [44]
665. Dynamic multivalent lactosides displayed on cyclodextrin beads dangling from polymer strings (A. Nelson, J.F. Stoddart), *Org. Lett.* **2003**, *5*, 3783–3786. [44]
666. Controlling multivalent interactions in triply-threaded two-component superbundles (V. Balzani, M. Clemente-León, A. Credi, J.N. Lowe, J.D. Badjić, J.F. Stoddart, D.J. Williams), *Chem. Eur. J.* **2003**, *9*, 5348–5360. [57]
667. The molecule-electrode interface in single-molecule transistors (H.B. Yu, Y. Luo, K. Beverly, J.F. Stoddart, H.-R. Tseng, J.R. Heath), *Angew. Chem., Int. Ed.* **2003**, *42*, 5706–5711. [131]
668. Single-walled carbon nanotube based molecular switch tunnel junctions (M.R. Diehl, D.W. Steuerman, H.-R. Tseng, S.A. Vignon, A. Star, P.C. Celestre, J.F. Stoddart, J.R. Heath), *ChemPhysChem* **2003**, *4*, 1335–1339. [117]

669. Photochemistry of a dumbbell-shaped multicomponent system hosted inside the mesopores of Al/MCM-41 aluminosilicate. Generation of long-lived viologen radicals (M. Álvaro, B. Ferrer, H. Garcia, E.J. Palomares, V. Balzani, A. Credi, M. Venturi, J. F. Stoddart, S. Wenger), *J. Phys. Chem. B* **2003**, *107*, 14319–14325. [24]
670. Glycodendrimers: Chemical Aspects (S.A. Nepogodiev, J.F. Stoddart) in *Advances in Macromolecular Carbohydrate Research*, Ed. R. Sturgeon, Elsevier Science B. V., **2003**, Vol. 2, pp. 191–240.
671. The metastability of an electrochemically controlled nanoscale machine on gold surfaces (H.-R. Tseng, D. Wu, N.X. Fang, X. Zhang, J.F. Stoddart), *ChemPhysChem* **2004**, *5*, 111–116. [169]
672. Redox-controllable amphiphilic [2]rotaxanes (H.-R. Tseng, S.A. Vignon, P.C. Celestre, J. Perkins, J.O. Jeppesen, A. Di Fabio, R. Ballardini, M.T. Gandolfi, M. Venturi, V. Balzani, J.F. Stoddart), *Chem. Eur. J.* **2004**, *10*, 155–172. [150]
673. Polyvalent scaffolds. Counting the number of seats available for eosin guest molecules in viologen-based host dendrimers (F. Marchioni, M. Venturi, A. Credi, V. Balzani, M. Belohradsky, A.M. Elizarov, H.-R. Tseng, J.F. Stoddart), *J. Am. Chem. Soc.* **2004**, *126*, 568–573. [47]
674. Can multivalency be expressed kinetically? The answer is yes (J.D. Badjić, S.J. Cantrill, J.F. Stoddart), *J. Am. Chem. Soc.* **2004**, *126*, 2288–2289. [75]
675. An operational supramolecular nanovalve (R. Hernandez, H.-R. Tseng, J.W. Wong, J.F. Stoddart, J.I. Zink), *J. Am. Chem. Soc.* **2004**, *126*, 3370–3371. [365]
676. A molecular elevator (J.D. Badjić, V. Balzani, A. Credi, S. Silvi, J.F. Stoddart), *Science* **2004**, *303*, 1845–1849. [786]
677. Molecule-independent electrical switching in Pt/organic monolayer/Ti devices (D.R. Stewart, D.A.A. Ohlberg, P. Beck, Y. Chen, R.S. Williams, J.O. Jeppesen, K.A. Nielsen, J.F. Stoddart), *Nano Lett.* **2004**, *4*, 133–136. [292]
678. A mechanically interlocked bundle (J.D. Badjić, V. Balzani, A. Credi, J.N. Lowe, S. Silvi, J.F. Stoddart), *Chem. Eur. J.* **2004**, *10*, 1926–1935. [76]
679. Helical chirality in donor-acceptor catenanes (S.A. Vignon, J. Wong, H.-R. Tseng, J.F. Stoddart), *Org. Lett.* **2004**, *6*, 1095–1098. [42]
680. Meccano on the nanoscale – A blueprint for making some of the world’s tiniest machines (A.H. Flood, R.J. Ramirez, W.-Q. Deng, R.P. Muller, W.A. Goddard III, J.F. Stoddart), *Aust. J. Chem.* **2004**, *57*, 301–322. [204]
681. Molecular shuttles based on tetrathiafulvalene units and 1,5-dioxynaphthalene ring systems (S.S. Kang, S.A. Vignon, H.-R. Tseng, J.F. Stoddart), *Chem. Eur. J.* **2004**, *10*, 2555–2564. [93]
682. Artificial molecular devices based on tetrathiafulvalene (J.O. Jeppesen, C.P. Collier, J.R. Heath, Y. Luo, K.A. Nielsen, J. Perkins, J.F. Stoddart, E. Wong), *J. Phys. IV France* **2004**, *114*, 511–513. [5]
683. Molecular Borromean rings (K.S. Chichak, S.J. Cantrill, A.R. Pease, S.-H. Chiu, G.W.V. Cave, J.L. Atwood, J.F. Stoddart), *Science* **2004**, *304*, 1308–1312. [512]
684. Polyvalent interactions in unnatural recognition processes (J.N. Lowe, D.A. Fulton, S.-H. Chiu, A.M. Elizarov, S.J. Cantrill, S.J. Rowan, J.F. Stoddart), *J. Org. Chem.* **2004**, *69*, 4390–4402. [24]
685. The exclusivity of multivalency in dynamic covalent processes (J.D. Badjić, S.J. Cantrill, R.H. Grubbs, E.N. Guidry, R. Orenes, J.F. Stoddart), *Angew. Chem., Int. Ed.* **2004**, *43*, 3273–3278. [58]
686. Langmuir and Langmuir-Blodgett films of amphiphilic bistable rotaxanes (I.C. Lee, C.W. Frank, T. Yamamoto, H.-R. Tseng, A.H. Flood, J.F. Stoddart, J.O. Jeppesen), *Langmuir* **2004**, *20*, 5809–5828. [58]
687. Electronic detection of the enzymatic degradation of starch (A. Star, V. Joshi, T.-R. Han, M.V.P. Altoé, G. Grüner, J.F. Stoddart), *Org. Lett.* **2004**, *6*, 2089–2092. [50]
688. Threading/dethreading processes in pseudorotaxanes. A thermodynamic and kinetic study (M. Venturi, S. Dumas, V. Balzani, J. Cao, J.F. Stoddart), *New J. Chem.* **2004**, *28*, 1032–1037. [48]
689. Switchable neutral bistable rotaxanes (S.A. Vignon, T. Jarrosson, T. Iijima, H.-R. Tseng, J.K.M. Sanders, J.F. Stoddart), *J. Am. Chem. Soc.* **2004**, *126*, 9884–9885. [192]
690. Synthesis of lactoside glycodendrons using photoaddition and reductive amination methodologies (A. Nelson, J.F. Stoddart), *Carbohydr. Res.* **2004**, *339*, 2069–2075. [17]

691. From cyclophanes to molecular machines (A.H. Flood, Y. Liu, J.F. Stoddart), in *Modern Cyclophane Chemistry*, Eds., H. Hopf, H. Gleiter, Wiley-VCH, Weinheim, 2004, pp. 485–518.
692. A self-assembled multivalent pseudopolyrotaxane for binding galectin-1 (A. Nelson, J.M. Belitsky, S. Vidal, C.S. Joiner, L.G. Baum, J.F. Stoddart), *J. Am. Chem. Soc.* **2004**, *126*, 11914–11922. [139]
693. The influence of constitutional isomerism and change on molecular recognition processes (A.R. Williams, B.H. Northrop, K.N. Houk, J.F. Stoddart, D.J. Williams), *Chem. Eur. J.* **2004**, *10*, 5406–5421. [14]
694. Thermally and electrochemically controllable self-complexing molecular switches (Y. Liu, A.H. Flood, J.F. Stoddart), *J. Am. Chem. Soc.* **2004**, *126*, 9150–9151. [107]
695. An integrated systems-oriented approach to molecular electronics (H.-R. Tseng, P.C. Celestre, J.F. Stoddart) in *Macromolecular Nano-Structured Materials*, Eds. N. Ueyama, A. Harada, Kondansha Scientific, Japan, **2004**, pp. 2–25 and 60–61.
696. Mechanical shuttling of linear motor-molecules in condensed phases on solid substrates (T.J. Huang, H.-R. Tseng, L. Sha, W. Lu, B. Brough, A.H. Flood, B.-D. Yu, P.C. Celestre, J.P. Chang, J.F. Stoddart, C.-M. Ho), *Nano Lett.* **2004**, *4*, 2065–2071. [96]
697. A nanomechanical device based on linear molecular motors (T.J. Huang, B. Brough, C.-M. Ho, Y. Liu, A.H. Flood, P.A. Bonvallet, H.-R. Tseng, J.F. Stoddart, M. Baller, S. Magonov), *Appl. Phys. Lett.* **2004**, *85*, 5391–5393. [164]
698. Counterion-Induced translational isomerism in a bistable [2]rotaxane (B.W. Laursen, S. Nygaard, J.O. Jeppesen, J.F. Stoddart), *Org. Lett.* **2004**, *6*, 4167–4170. [77]
699. Molecular mechanical switch-based solid-state electrochromic devices (D.W. Steuerman, H.-R. Tseng, A.J. Peters, A.H. Flood, J.O. Jeppesen, K.A. Nielsen, J.F. Stoddart, J.R. Heath), *Angew. Chem., Int. Ed.* **2004**, *43*, 6486–6491. [187]
700. Complete charge pooling is prevented in viologen-based dendrimers by self-protection (F. Marchioni, M. Venturi, P. Ceroni, V. Balzani, M. Belohradsky, A.M. Elizarov, H.-R. Tseng, J.F. Stoddart), *Chem. Eur. J.* **2004**, *10*, 6361–6368. [36]
701. Controllable donor-acceptor neutral [2]rotaxanes (T. Iijima, S.A. Vignon, H.-R. Tseng, T. Jarrosson, J.K.M. Sanders, F. Marchioni, M. Venturi, E. Apostoli, V. Balzani, J.F. Stoddart), *Chem. Eur. J.* **2004**, *10*, 6375–6392. [161]
702. The role of physical environment on molecular electromechanical switching (A.H. Flood, A.J. Peters, S.A. Vignon, D.W. Steuerman, H.-R. Tseng, S. Kang, J.R. Heath, J.F. Stoddart), *Chem. Eur. J.* **2004**, *10*, 6558–6564. [145]
703. Whence molecular electronics? (A.H. Flood, J.F. Stoddart, D.W. Steuerman, J.R. Heath), *Science* **2004**, *306*, 2055–2056. [382]
704. Spontaneous resolution in a family of [2]catenanes containing proton-ionisable 1*H*-1,2,4-triazole subunits (E. Alcalde, L. Pérez-García, S. Ramos, J.F. Stoddart, A.J.P. White, D.J. Williams), *Mendeleev Comm.* **2004**, 233–235. [3]
705. Powering a supramolecular machine with a photoactive molecular triad (S. Saha, L.E. Johansson, A.H. Flood, H.-R. Tseng, J.I. Zink, J.F. Stoddart), *Small* **2005**, *1*, 87–90. [41]
706. Versatile self-complexing compounds based on covalently linked donor-acceptor cyclophanes (Y. Liu, A.H. Flood, R.M. Moskowitz, J.F. Stoddart), *Chem. Eur. J.* **2005**, *11*, 369–385. [54]
707. Nanoscale Borrromean rings (S.J. Cantrill, K.S. Chichak, A.J. Peters, J.F. Stoddart), *Acc. Chem. Res.* **2005**, *38*, 1–9. [181]
708. Single-walled carbon nanotubes under the influence of dynamic coordination and supramolecular chemistry (K.S. Chichak, A. Star, M.V. Altoé, J.F. Stoddart), *Small* **2005**, *1*, 452–461. [79]
709. Structures and properties of self-assembled monolayers of bistable [2]rotaxanes on Au(111) surfaces from molecular dynamics simulations validated with experiment (S.S. Jang, Y.H. Jang, Y.-H. Kim, W.A. Goddard III, A.H. Flood, B.W. Laursen, H.-R. Tseng, J.F. Stoddart, J.O. Jeppesen, J.W. Choi, D.W. Steuerman, E. Delonno, J.R. Heath), *J. Am. Chem. Soc.* **2005**, *127*, 1563–1575. [177]

710. Honing up a genre of amphiphilic bistable [2]rotaxanes for device settings (J.O. Jeppesen, S. Nygaard, S.A. Vignon, J.F. Stoddart), *Eur. J. Org. Chem.* **2005**, 196–220. [72]
711. Evidence of strong hydration and significant tilt of amphiphilic [2]rotaxane molecules in Langmuir films studied by synchrotron X-ray reflectivity (K. Nørgaard, J.O. Jeppesen, B.W. Laursen, J.B. Simonsen, M.J. Weygard, K. Kjaer, J.F. Stoddart, T. Bjørnholm), *J. Phys. Chem.* **2005**, 109, 1063–1066. [23]
712. Nanoelectronic devices from self-organized molecular switches (P.M. Mendes, A.H. Flood, J.F. Stoddart), *Applied Physics A* **2005**, 80, 1197–1209. [93]
713. Template-directed dynamic synthesis of mechanically interlocked dendrimers (K.C.-F. Leung, F. Aricó, S.J. Cantrill, J.F. Stoddart), *J. Am. Chem. Soc.* **2005**, 127, 5808–5810. [104]
714. Donor-acceptor pretzelanes and a cyclic bis[2]catenane homologue (Y. Liu, P.A. Bonvallet, S. A. Vignon, S. I. Kahn, J.F. Stoddart), *Angew. Chem., Int. Ed.* **2005**, 44, 3050–3055. [49]
715. Magic ring catenation by olefin metathesis (E.N. Guidry, S.J. Cantrill, J.F. Stoddart, R.H. Grubbs), *Org. Lett.* **2005**, 7, 2129–2132. [115]
716. Template-directed synthesis of multiply mechanically interlocked molecules under thermodynamic control (F. Aricó, T. Chang, S. J. Cantrill, S.I. Khan, J.F. Stoddart), *Chem. Eur. J.* **2005**, 11, 4655–4666. [99]
717. Templated synthesis of interlocked molecules (F. Arico, J.D. Badjić, S.J. Cantrill, A.H. Flood, K.C.F. Leung, Y. Liu, J.F. Stoddart), *Top. Curr. Chem.* **2005**, 249, 203–259. [155]
718. Dynamic nanoscale Borromean links (K.S. Chichak, S.J. Cantrill, J.F. Stoddart), *Chem. Commun.* **2005**, 3391–3393. [33]
719. Nanoscale Borromean links for real (A.J. Peters, K.S. Chichak, S.J. Cantrill, J.F. Stoddart), *Chem. Commun.* **2005**, 3394–3396. [57]
720. A reversible molecular valve (T. Nguyen, H.-R. Tseng, P.C. Celestre, A.H. Flood, Y. Liu, J.I. Zink, J.F. Stoddart), *Proc. Natl. Acad. Sci. USA* **2005**, 102, 10029–10034. [374]
721. Multivalency and cooperativity in supramolecular chemistry (J.D. Badjić, A. Nelson, S.J. Cantrill, W.B. Turnbull, J.F. Stoddart), *Acc. Chem. Res.* **2005**, 38, 723–732. [480]
722. From a meccano set to nano meccano (J.F. Stoddart), *Pure Appl. Chem.* **2005**, 77, 1089–1106. [8]
723. Linear artificial molecular muscles (Y. Liu, A.H. Flood, P.A. Bonvallet, S.A. Vignon, H.-R. Tseng, T.J. Huang, B. Brough, M. Baller, S. Magonov, S. Solares, W.A. Goddard III, C.-M. Ho, J.F. Stoddart), *J. Am. Chem. Soc.* **2005**, 127, 9745–9759. [525]
724. A photoactive molecular triad as a nanoscale power supply for a supramolecular machine (S. Saha, E. Johansson, A.H. Flood, H.-R. Tseng, J.I. Zink, J.F. Stoddart), *Chem. Eur. J.* **2005**, 11, 6846–6858. [92]
725. Molecular dynamics simulation of amphiphilic bistable [2]rotaxane Langmuir monolayers at air/water interfaces (S.S. Jang, Y.H. Jang, Y.-H. Kim, W.A. Goddard III, J.W. Choi, J.R. Heath, B.W. Laursen, A.H. Flood, J.F. Stoddart, K. Nørgaard, T. Bjørnholm), *J. Am. Chem. Soc.* **2005**, 127, 14804–14816. [76]
726. An electrochemical color-switchable RGB dye: Tristable [2]catenane (W.-Q. Deng, A.H. Flood, J.F. Stoddart, W.A. Goddard III), *J. Am. Chem. Soc.* **2005**, 127, 15994–15995. [80]
727. Conformational diastereoisomerism in a chiral pretzelane (Y. Liu, S.A. Vignon, X. Zhang, K.N. Houk, J.F. Stoddart), *Chem. Commun.* **2005**, 3927–3929. [19]
728. Shuttling dynamics in an acid-base switchable [2]rotaxane (S. Garandeé, S. Silvi, M. Venturi, A. Credi, A.H. Flood, J.F. Stoddart), *ChemPhysChem* **2005**, 6, 2145–2152. [76]
729. Nanoscale Borromean links (K.S. Chichak, A.J. Peters, S.J. Cantrill, J.F. Stoddart), *J. Org. Chem.* **2005**, 70, 7956–7962. [47]
730. Template-directed olefin cross metathesis (S.J. Cantrill, K.G. Poulin-Kerstein, R.H. Grubbs, D. Lanari, K.C.-F. Leung, A. Nelson, S.P. Smidt, J.F. Stoddart, D.A. Tirrell), *Org. Lett.* **2005**, 7, 4213–4216. [42]
731. Exploring dynamics and stereochemistry in mechanically interlocked compounds (S.A. Vignon, J.F. Stoddart), *Coll. Czech. Chem. Commun.* **2005**, 70, 1493–1576. [40]

732. Structural evidence of mechanical shuttling in condensed monolayers of rotaxane molecules (K. Nørgaard, B.W. Laursen, S. Nygaard, K. Kjaer, H.-R. Tseng, A.H. Flood, J.F. Stoddart, T. Bjørnholm), *Angew. Chem., Int. Ed.* **2005**, *44*, 7035–7039. [50]
733. Dynamic chirality in donor-acceptor pretzelanes (Y. Liu, S.A. Vignon, X. Zhang, P.A. Bonvallet, S.I. Khan, K.N. Houk, J.F. Stoddart), *J. Org. Chem.* **2005**, *70*, 9334–9344. [22]
734. Template-directed syntheses of configurable and reconfigurable molecular switches (Y. Liu, S. Saha, S.A. Vignon, A.H. Flood, J.F. Stoddart), *Synthesis* **2005**, 3437–3445. [16]
735. Towards a rational design of molecular switches and sensors from their basic building blocks (N.N.P. Moonen, A.H. Flood, J.M. Fernández, J.F. Stoddart), *Top. Curr. Chem.* **2005**, *262*, 99–132. [88]
736. Quantifying the working stroke of tetrathiafulvalene-based electrochemically driven linear motor-molecules (S. Nygaard, B.W. Laursen, A.H. Flood, C. Hansen, J.O. Jeppesen, J.F. Stoddart), *Chem. Commun.* **2006**, 144–146. [60]
737. Ground state equilibrium thermodynamics and switching kinetics of bistable [2]rotaxane switches in solution, polymer gels, and molecular electronic devices (J.W. Choi, A.H. Flood, D.W. Steuerman, S. Nygaard, A.B. Braunschweig, N.N.P. Moonen, B.W. Laursen, Y. Luo, E. Delonno, A.J. Peters, J.O. Jeppesen, K. Xe, J.F. Stoddart, J.R. Heath), *Chem. Eur. J.* **2006**, *12*, 261–279. [173]
738. Structural control at the organic-solid interface (A.B. Braunschweig, B.H. Northrop, J.F. Stoddart), *J. Mater. Chem.* **2006**, *16*, 32–44. [65]
739. Autonomous artificial nanomotor powered by sunlight (V. Balzani, M. Clemente-León, A. Credi, B. Ferrer, M. Venturi, A.H. Flood, J.F. Stoddart), *Proc. Natl. Acad. Sci. USA* **2006**, *103*, 1178–1183. [358]
740. Monitoring cyclodextrin-polyviologen pseudopolyrotaxanes with the Bradford assay (J.M. Belitsky, A. Nelson, J.F. Stoddart), *Org. Biomol. Chem.* **2006**, *4*, 250–256. [15]
741. Operating molecular elevators (J.D. Badjić, C.M. Ronconi, A.H. Flood, J.F. Stoddart, S. Silvi, A. Credi, V. Balzani), *J. Am. Chem. Soc.* **2006**, *128*, 1489–1499. [230]
742. Supramolecular pseudorotaxane type complexes from pi-extended TTF dimer crown ether and C-60 (M.C. Diaz, B.M. Illescas, N. Martin, J.F. Stoddart, M.A. Canales, J. Jiménez-Barbero, G. Sarova, D.M. Guildi), *Tetrahedron* **2006**, *62*, 1998–2002. [36]
743. A soliton phenomenon in Langmuir monolayers of amphiphilic bistable rotaxanes (P.R. Mendez, W. Lu, H.-R. Tseng, S. Shinder, T. Iijima, M. Miyaji, C.M. Knobler, J.F. Stoddart), *J. Phys. Chem. B* **2006**, *110*, 3845–3848. [15]
744. Pseudorotaxanes and rotaxanes formed by viologen derivatives (A.B. Braunschweig, C.M. Ronconi, J.-Y. Han, F. Arico, S.J. Cantrill, J.F. Stoddart, S.I. Khan, A.J.P. White, D.J. Williams), *Eur. J. Org. Chem.* **2006**, 1857–1866. [49]
745. Molecular mechanics and molecular electronics (R. Beckman, K. Beverly, A. Boukai, Y. Bunimovich, J.W. Choi, E. Delonno, J. Green, E. Johnston-Halperin, Y. Luo, B. Sheriff, J.F. Stoddart, J.R. Heath) *Faraday Discuss.* **2006**, *131*, 9–22. [56]
746. A comparison of shuttling mechanisms in two constitutionally isomeric bistable rotaxane-based sunlight-powered nanomotors (V. Balzani, M. Clemente-León, A. Credi, M. Semeraro, M. Venturi, H.-R. Tseng, S. Wenger, S. Saha, J.F. Stoddart), *Aust. J. Chem.* **2006**, *59*, 193–206. [41]
747. Self-assembly with block copolymers through metal coordination of SCS Pd(II) pincer complexes and pseudorotaxane formation (C.R. Smith, M.N. Higley, K.C.-F. Leung, D. Lanari, A. Nelson, R.H. Grubbs, J.F. Stoddart, M. Weck), *Chem. Eur. J.* **2006**, *12*, 3789–3797. [46]
748. Towards organization of molecular machines at interfaces. Langmuir films and Langmuir-Blodgett multilayers of an acid-base switchable rotaxane (M. Clemente-León, A. Credi, M.-V. Martínez-Díaz, C. Mingotaud, J.F. Stoddart), *Adv. Mater.* **2006**, *18*, 1291–1296. [39]
749. Nano meccano (Y. Liu, A.H. Flood, J.F. Stoddart) in *Nano Redox Sites*, Ed. T. Hirao, Springer, **2006**, pp. 193–214.

750. Infrared spectroscopic characterization of [2]rotaxane molecular switch tunnel junction devices (E. Delonno, H.-R. Tseng, D.D. Harvey, J. F. Stoddart, J.R. Heath), *J. Phys. Chem. B* **2006**, *110*, 7609–7612. [52]
751. Kinetically controlled self-assembly of pseudorotaxanes on crystallization (B.H. Northrop, S.I. Kahn, J.F. Stoddart), *Org. Lett.* **2006**, *8*, 2159–2162. [23]
752. Models of charge transport and transfer in molecular switch tunnel junctions of bistable catenanes and rotaxanes (A.H. Flood, E.W. Wong, J.F. Stoddart), *Chem.Phys.* **2006**, *324*, 280–290. [38]
753. Noncovalent side-chain functionalization of terpolymers (C.R. South, K.C.-F. Leung, D. Lanari, J.F. Stoddart, M. Weck), *Macromolecules* **2006**, *39*, 3738–3744. [38]
754. Locking down the electronic structure of (monopyrrolo)tetrathiafulvalene in [2]rotaxanes (A.H. Flood, S. Nygaard, B.W. Laursen, J.O. Jeppesen, J.F. Stoddart), *Org. Lett.* **2006**, *8*, 2205–2208. [37]
755. Evaluation of synthetic linear motor-molecule actuation energetics (B. Brough, B.H. Northrop, J.J. Schmidt, H.-R. Tseng, K.N. Houk, J.F. Stoddart, C.-M. Ho), *Proc. Natl. Acad. Sci. USA* **2006**, *103*, 8583–8588. [64]
756. Understanding and harnessing biomimetic molecular machines for NEMS actuation materials (T.J. Huang, A.H. Flood, B. Brough, Y. Liu, P.A. Bonvallet, S. Kang, C.-W. Chu, T.-F. Guo, W. Lu, Y. Yang, J.F. Stoddart, C.-M. Ho), *IEEE Transactions on Automation Science and Engineering*. **2006**, *3*, 254–259. [17]
757. Chiral Borromeates (C.D. Pentecost, A.J. Peters, K.S. Chichak, G.W.V. Cave, S.J. Cantrill, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2006**, *45*, 4099–4104. [53]
758. Construction of a pH-driven supramolecular nanovalve (T.D. Nguyen, K.C.-F. Leung, M. Long, C.D. Pentecost, J.F. Stoddart, J.I. Zink), *Org. Lett.* **2006**, *8*, 3363–3366. [209]
759. Emerging memory devices – Nontraditional possibilities based on nanomaterials and nanostructures (K. Galatsis, K. Wang, Y. Botros, Y. Yang, Y.H. Xie, J.F. Stoddart, R.B. Kaner, C. Ozkan, J.L. Liu, M. Ozkan, C.W. Zhou, K.W. Kim) *IEEE Circuits & Devices* **2006**, *22* (3), 12–21. [38]
760. Efficient templated synthesis of donor-acceptor rotaxanes using click chemistry (W.R. Dichtel, O.Š. Miljanić, J.M. Spruell, J.R. Heath, J.F. Stoddart), *J. Am. Chem. Soc.* **2006**, *128*, 10388–10390. [154]
761. Supramolecular self-assembly of dendronized polymers: Reversible control of the polymer architectures through acid–base reactions (K.C.-F. Leung, P.M. Mendes, S.N. Magonov, B.H. Northrop, S. Kim, K. Patel, A.H. Flood, H.-R. Tseng, J.F. Stoddart), *J. Am. Chem. Soc.* **2006**, *128*, 10707–10715. [99]
762. Template-directed synthesis of mechanically interlocked molecular bundles using dynamic covalent chemistry (B.H. Northrop, N. Tangchiavang, J.D. Badjić, J.F. Stoddart), *Org. Lett.* **2006**, *8*, 3899–3902. [68]
763. Bioinspired detection of light using a porphyrin-sensitized single-wall nanotube field effect transistor (D.S. Hecht, R.J.A. Ramirez, M. Briman, E. Artukovic, K.S. Chichak, J.F. Stoddart, G. Grüner), *Nano Lett.* **2006**, *6*, 2031–2036. [181]
764. Mechanism of enhanced rectification in unimolecular Borromean ring devices (G.D. Scott, K.S. Chichak, A.J. Peters, S.J. Cantrill, J.F. Stoddart, H.W. Jiang), *Phys. Rev. B* **2006**, *74*, 113404-1 – 113404-4. [11]
765. Cyclobis(paraquat-*p*-phenylene)-based [2]catenanes prepared by kinetically controlled reactions involving alkynes (O.Š. Miljanić, W.R. Dichtel, S. Mortezaei, J.F. Stoddart), *Org. Lett.*, **2006**, *8*, 4835–4838. [73]
766. Template-directed one-step synthesis of cyclic trimers by ADMET (H. Hou, K.C.-F. Leung, D. Lanari, A. Nelson, J.F. Stoddart, R.H. Grubbs), *J. Am. Chem. Soc.* **2006**, *128*, 15358–15359. [41]
767. Suitanes (A.R. Williams, B.H. Northrop, T. Chang, J.F. Stoddart, A.J.P. White, D.J. Williams), *Angew. Chem. Int. Ed.* **2006**, *40*, 6665–6669. [64]
768. Supramolecular nanovalves controlled by proton abstraction and competitive binding (K.C.-F. Leung, T.D. Nguyen, J.F. Stoddart, J.I. Zink) *Chem. Mater.* **2006**, *18*, 5919–5928. [178]

769. Photoinduced electron flow in a self-assembling supramolecular extension cable (B. Ferrer, G. Rogez, A. Credi, R. Ballardini, M.T. Gandolfi, V. Balzani, Y. Liu, H.-R. Tseng, J.F. Stoddart) *Proc. Natl. Acad. Sci. USA* **2006**, *103*, 18411–18416. [55]
770. Molecular motors and muscles (S. Saha, J.F. Stoddart) in *Functional Organic Materials*, T.J.J. Muller, U. H.F. Bunz (Eds.), Wiley-VCH, Weinheim, Germany, **2007**, pp. 295–327. [0]
771. Photo-driven molecular devices (S. Saha, J.F. Stoddart) *Chem. Soc. Rev.* **2007**, *36*, 77–92. [441]
772. Toward electrochemically controllable tristable three-station [2]catenanes (T. Ikeda, S. Saha, I. Aprahamian, K.C-F. Leung, A. Williams, W.-Q. Deng, A.H. Flood, W.A. Goddard III, J.F. Stoddart) *Chem. Asian J.*, **2007**, *2*, 76–93. [63]
773. A molecular Solomon link (C.D. Pentecost, K.S. Chichak, A.J. Peters, G.W.V. Cave, S.J. Cantrill, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2007**, *46*, 218–222. [165]
774. Switching surface chemistry with supramolecular machines (B.C. Bunker, D.L. Huber, J.G. Kushmerick, T. Dunbar, M. Kelly, C. Matzke, J. Cao, J.O. Jeppesen, J. Perkins, A.H. Flood, J.F. Stoddart), *Langmuir* **2007**, *23*, 31–34. [33]
775. A 160-kilobit molecular electronic memory patterned at 10¹¹ bits per square centimeter (J.E. Green, J.W. Choi, A. Boukai, Y. Bunimovich, E. Johnston-Halprin, E. Delonno, Y. Luo, B.A. Sheriff, K. Xu, Y.S. Shin, H.-R. Tseng, J.F. Stoddart, J.R. Heath), *Nature* **2007**, *445*, 414–417. [902]
776. Design and optimization of molecular nanovalves based on redox-switchable rotaxanes (T.D. Nguyen, I. Liu, S. Saha, K.C-F. Leung, J.F. Stoddart, J.I. Zink), *J. Am. Chem. Soc.* **2007**, *129*, 626–634. [320]
777. Functionally rigid bistable [2]rotaxanes (S. Nygaard, K.C-F. Leung, I. Aprahamian, T. Ikeda, S. Saha, B.W. Laursen, S.-Y. Kim, S.W. Hansen, P.C. Stein, A.H. Flood, J.F. Stoddart, J.O. Jeppesen), *J. Am. Chem. Soc.*, **2007**, *129*, 960–970. [94]
778. Modular synthesis and dynamics of a variety of donor-acceptor interlocked compounds prepared by click chemistry (A.B. Braunschweig, W.R. Dichtel, O.Š. Miljanić, M.A. Olson, J.M. Spruell, S.I. Khan, J.R. Heath, J.F. Stoddart), *Chem. Asian J.* **2007**, *2*, 634–647. [81]
779. A clicked bistable [2]rotaxane (I. Aprahamian, W.R. Dichtel, T. Ikeda, J.R. Heath, J.F. Stoddart), *Org. Lett.* **2007**, *9*, 1287–1290. [84]
780. Designing bistable [2]rotaxanes for molecular electronic devices (W.R. Dichtel, J.R. Heath, J.F. Stoddart), *Phil. Trans. R. Soc. London Ser. A.* **2007**, *365*, 1607–1625. [68]
781. Blue-colored donor-acceptor [2]rotaxane (T. Ikeda, I. Aprahamian, J.F. Stoddart), *Org. Lett.*, **2007**, *9*, 1481–1484. [32]
782. Nanovalves (S. Saha, K.C.-F. Leung, T.D. Nguyen, J.F. Stoddart, J.I. Zink) *Adv. Funct. Mater.* **2007**, *17*, 685–693. [248]
783. A molecular plug-socket connector (G. Reyez, B.F. Ribera, A. Credi, R. Ballardini, M.T. Gandolfi, V. Balzani, Y. Liu, B.H. Northrop, J.F. Stoddart), *J. Am. Chem. Soc.*, **2007**, *129*, 4633–4642. [43]
784. Nondegenerate π -donor/ π -acceptor [2]catenanes containing proton-ionizable 1*H*-1,2,4-triazole subunits: Synthesis and spontaneous resolution (E. Alcalde, L. Pérez-García, S. Ramos, J.F. Stoddart, A.J.P. White, D.J. Williams), *Chem. Eur. J.* **2007**, *13*, 3964–3979. [19]
785. Making molecular Borromean rings. A gram-scale synthetic procedure for the undergraduate organic lab (C.D. Pentecost, N. Tangshaivang, S.J. Cantrill, K.S. Chichak, A.J. Peters, J. F. Stoddart), *J. Chem. Ed.* **2007**, *84*, 855–859. [17]

786. Targeting galectin-1 with self-assembled multivalent pseudopolyrotaxanes (J.M. Belitsky, J.F. Stoddart), ACS Symposium Series on "Frontiers in Modern Carbohydrate Chemistry," A. Demchenko (Ed.), ACS Books, **2007**, p. 356–374. [0]
787. Molecular machines (B.H. Northrop, A.B. Braunschweig, P.M. Mendes, W.R. Dichtel, J.F. Stoddart), *Handbook of Nanoscience Engineering and Technology*, Second Edition, W.A. Goddard III, D.W. Brenner, S.E. Lyshevski, G.J. Iafrate (Eds.), CRC Press, **2007**, p. 11-1 – 11-48. [0]
788. Dynamic mechanically interlocked dendrimers. Amplification in dendritic dynamic combinatorial libraries (K.C.-F. Leung, F. Aricó, S.J. Cantrill, J.F. Stoddart) *Macromolecules*, **2007**, *40*, 3951–3959. [45]
789. Efficient routes to novel molecular architectures: Template-directed synthesis of mechanically interlocked structures (B.H. Northrop, J.M. Spruell, J.F. Stoddart), *Chimica Oggi*. **2007**, *25* (3), 4–7. [4]
790. A liquid-crystalline bistable [2]rotaxane (I. Aprahamian, T. Yasuda, T. Ikeda, S. Saha, W.R. Dichtel, K. Isoda, T. Kato, J.F. Stoddart). *Angew. Chem. Int. Ed.* **2007**, *46*, 4675–4679. [135]
791. Hexafunctionalized Borromeates using olefin cross metathesis (C.R. Yates, D. Benítez, S.I. Khan, J.F. Stoddart), *Org. Lett.* **2007**, *9*, 2433–2436. [16]
792. Structural and co-conformational effects of alkyne-derived subunits in charged donor-acceptor [2]catenanes (O.Š. Miljanić, W.R. Dichtel, S.I. Khan, S. Mortezaei, J.R. Heath, J.F. Stoddart), *J. Am. Chem. Soc.* **2007**, *129*, 8236–8246. [67]
793. Dynamic donor-acceptor [2]catenanes (O.Š. Miljanić, J.F. Stoddart), *Proc. Natl. Acad. Sci. USA* **2007**, *104*, 12966–12970. [63]
794. Equilibrating dynamic [2]rotaxanes (P.C. Haussmann, S.I. Khan, J.F. Stoddart), *J. Org. Chem.* **2007**, *72*, 6708–6713. [42]
795. Versatile supramolecular nanovalves reconfigured for light activation (T.D. Nguyen, K.C.-F. Leung, M. Liong, Y. Liu, J.F. Stoddart, J.I. Zink), *Adv. Funct. Mater.* **2007**, *17*, 2101–2110. [169]
796. Bifunctional [c2]daisy-chains and their incorporation into mechanically interlocked polymers (E.N. Guidry, J. Li, S.J. Cantrill, J.F. Stoddart, R.H. Grubbs), *J. Am. Chem. Soc.*, **2007**, *129*, 8944–8945. [74]
797. Mesostructured silica supports for functional materials and molecular machines (S. Angelos, E. Johansson, J.F. Stoddart, J.I. Zink), *Adv. Funct. Mater.* **2007**, *17*, 2261–2271. [169]
798. Template-directed synthesis employing reversible imine bond formation (C.D. Meyer, C.S. Joiner, J.F. Stoddart), *Chem. Soc. Rev.* **2007**, *36*, 1705–1723. [324]
799. A redox-driven multicomponent molecular shuttle (S. Saha, A.H. Flood, J.F. Stoddart, S. Impellizzeri, S. Silvi, A. Credi) *J. Am. Chem. Soc.* **2007**, *109*, 12159–12171. [143]
800. Clicked interlocked molecules (I. Aprahamian, O.Š. Miljanić, W.R. Dichtel, K. Isoda, T. Yasuda, T. Kato, J.F. Stoddart), *Bull. Chem. Soc. Jpn.* **2007**, *80*, 1856–1869. [104]
801. Multivalent interactions between lectins and supramolecular complexes: Galectin-1 and self-assembled pseudopolyrotaxanes (J.M. Belitsky, A. Nelson, J.D. Hernandez, L.G. Baum, J.F. Stoddart), *Chem. Biol.*, **2007**, *14*, 1140–1151. [37]
802. Efficient production of [n]rotaxanes using template-directed clipping reactions (J. Wu, K.C.-F. Leung, J.F. Stoddart), *Proc. Natl. Acad. Sci. USA* **2007**, *104*, 17266–17271. [80]
803. Bispyrrolotetrafulvalene-containing [2]catenanes (M.R. Tomcsi, J.F. Stoddart), *J. Org. Chem.* **2007**, *72*, 9335–9338. [13]
804. Electrochemically controllable conjugation of proteins on surfaces (P.M. Mendes, K.L. Christman, P. Parthasarathy, E. Schopf, J. Ouyang, Y. Yang, J.A. Preece, H.D. Maynard, Y. Chen, J.F. Stoddart), *Bioconjugate Chem.* **2007**, *18*, 1919–1923. [39]

805. Rotaxanes and catenanes by click chemistry (O.Š. Miljanić, W.R. Dichtel, I. Aprahamian, R.D. Rohde, H.D. Agnew, J.R. Heath, J.F. Stoddart), *QSAR & Combinatorial Science*, **2007**, *26*, 1165–1174. [58]
806. Pirouetting in chiral [2]catenanes (S. Kang, I. Aprahamian, J.F. Stoddart), *Isr. J. Chem.*, **2007**, *47*, 253–262. [1]
807. Template-directed synthesis of donor/acceptor [2]catenanes and [2]rotaxanes (K.E. Griffiths, J.F. Stoddart), *Pure Appl. Chem.* **2008**, *80*, 485–506. [128]
808. pH-Responsive supramolecular nanovalves based on cucurbit[6]uril pseudorotaxanes (S. Angelos, Y.-W. Yang, K. Patel, J.F. Stoddart, J.I. Zink), *Angew. Chem. Int. Ed.* **2008**, *47*, 2222–2226. [368]
809. Enzyme-responsive snap-top covered silica nanocontainers (K. Patel, Y.-W. Yang, J.I. Zink, J.F. Stoddart), *J. Am. Chem. Soc.* **2008**, *130*, 2382–2383. [465]
810. Light-induced charge transfer in pyrene/CdSe-SWNT hybrids (L. Hu, Y.-L. Zhao, K. Ryu, C. Zhou, J.F. Stoddart, G. Grüner), *Adv. Mater.* **2008**, *20*, 939–946. [149]
811. Iodide-catalysed self-assembly of donor-acceptor [3]catenanes (K. Patel, O.Š. Miljanić, J.F. Stoddart), *Chem. Commun.* **2008**, 1853–1855. [36]
812. Tetrathiafulvalene radical cation dimerization in a bistable tripodal [4]rotaxane (I. Aprahamian, J.C. Olsen, A. Trabolsi, J.F. Stoddart), *Chem. Eur. J.* **2008**, *14*, 3889–3895. [58]
813. Unravelling the shuttling mechanism in a photoswitchable multicomponent bistable rotaxane (P. Raiteri, G. Bussi, C.S. Cucinotta, A. Credi, J.F. Stoddart, M. Parrinello), *Angew. Chem. Int. Ed.* **2008**, *47*, 3536–3539. [49]
814. Organogel formation by a cholesterol-stoppered bistable [2]rotaxane and its dumbbell precursor (Y.L. Zhao, I. Aprahamian, A. Trabolsi, N. Erina, J.F. Stoddart), *J. Am. Chem. Soc.* **2008**, *130*, 6348–6350. [99]
815. Folding of a donor-acceptor polyrotaxane using secondary noncovalent bonding interactions (W. Zhang, W.R. Dichtel, A.Z. Steig, D. Benítez, J.K. Gimzewski, J.R. Heath, J.F. Stoddart), *Proc. Natl. Acad. Sci. USA* **2008**, *105*, 6514–6519. [63]
816. Pyrenecyclodextrin-decorated single-walled carbon nanotube field-effect transistors as chemical sensors (Y.-L. Zhao, L. Hu, J.F. Stoddart, G. Grüner), *Adv. Mater.* **2008**, *20*, 1910–1915. [74]
817. A one-pot synthesis of constitutionally unsymmetrical rotaxanes using sequential Cu(I)-catalyzed azide-alkyne cycloadditions (J.M. Spruell, W.R. Dichtel, J.R. Heath, J.F. Stoddart), *Chem. Eur. J.* **2008**, *14*, 4168–4177. [44]
818. Electrochromic materials using mechanically interlocked molecules (T. Ikeda, J.F. Stoddart), *Science and Technology of Advanced Materials* **2008**, *8*, 014104 (7 pp). [16]
819. A reverse donor–acceptor bistable [2]catenane (A. Coskun, S. Saha, I. Aprahamian, J.F. Stoddart), *Org. Lett.* **2008**, *10*, 3187–3190. [41]
820. A redox-switchable α -cyclodextrin-based [2]rotaxane (Y.-L. Zhao, W.R. Dichtel, A. Trabolsi, S. Saha, I. Aprahamian, J.F. Stoddart), *J. Am. Chem. Soc.* **2008**, *130*, 11294–11296. [104]
821. Big and little Meccano (J.F. Stoddart, H.M. Coloquhoun), *Tetrahedron* **2008**, *64*, 8231–8263. [104]
822. Polyviologen dendrimers as hosts and charge-storing devices (C.M. Ronconi, J.F. Stoddart, V. Balzani, M. Baroncini, P. Ceroni, C. Giansante, M. Venturi), *Chem. Eur. J.* **2008**, *14*, 8365–8373. [36]
823. An acid-base-controllable [c2]daisy chain (J. Wu., K.C.-F. Leung, D. Benítez, J.-Y. Han, S.J. Cantrill, L. Fang, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2008**, *47*, 7470–7474. [145]
824. An interdigitated functionally rigid [2]rotaxane (I. Yoon, O.Š. Miljanić, D. Benítez, S.I. Khan, J.F. Stoddart), *Chem. Commun.* **2008**, 4561–4563. [26]

825. Kinetic and thermodynamic approaches for the efficient formation of mechanical bonds (W.R. Dichtel, O.Š. Miljanić, W. Zhang, J.M. Spruell, K. Patel, I. Aprahamian, J.R. Heath, J.F. Stoddart), *Acc. Chem. Res.* **2008**, *41*, 1750–1761. [32]
826. Experimentally-based recommendations of density functionals for predicting properties in mechanically interlocked molecules (D. Benítez, E. Tkatchouk, I. Yoon, J.F. Stoddart, W.A. Goddard III), *J. Am. Chem. Soc.* **2008**, *130*, 14928–14929. [46]
827. Heterogeneous catalysis through microcontact printing (J.M. Spruell, B.A. Sheriff, D.I. Rozkiewicz, W.R. Dichtel, R.D. Rohde, D.N. Reinhoudt, J.F. Stoddart, J.R. Heath), *Angew. Chem. Int. Ed.* **2008**, *47*, 9927–9932. [40]
828. A tunable photosensor (Y.-L. Zhao, L. Hu, G. Grüner, J.F. Stoddart), *J. Am. Chem. Soc.* **2008**, *130*, 16996–17003. [49]
829. Spatially controlled assembly of nanomaterials at the nanoscale (P. Parthasarathy, P.M. Mendes, E. Schopf, J.A. Preece, J.F. Stoddart, Y. Chen), *J. Nanosci. Nanotechnol.* **2009**, *9*, 650–654. [3]
830. Facile post-polymerization and modification of RAFT polymers (J.M. Spruell, B.A. Levy, A. Sutherland, W.R. Dichtel, J. Cheng, J.F. Stoddart, A. Nelson), *J. Polym. Sci., Part A: Polym. Chem.* **2009**, *47*, 346–356. [69]
831. Complexation between methyl viologen (paraquat) bis(hexafluorophosphate) and dibenzo[24]crown-8 revisited (T.B. Gasa, J.M. Spruell, W.R. Dichtel, T.J. Sørensen, D. Philp, J.F. Stoddart, P. Kuzmić), *Chem. Eur. J.* **2009**, *15*, 106–116. [53]
832. Mesostuctured silica for optical functionality, nanomachines, and drug delivery (Y. Klichko, M. Liong, E. Choi, S. Angelos, A.E. Nel, J.F. Stoddart, F. Tamaoi, J.I. Zink) *J. Am. Ceram. Soc.* **2009**, *92*, [S1] S2–S10. [77]
833. Functionally rigid and degenerate molecular shuttles (I. Yoon, D. Benítez, Y.-L. Zhao, O.Š. Miljanić, S.-Y. Kim, E. Tkatchouk, K.C.-F. Leung, S.-I. Khan, W.A. Goddard III, J.F. Stoddart), *Chem. Eur. J.* **2009**, *15*, 1115–1122. [36]
834. A bistable poly[2]catenane forms nanosuperstructures (M.A. Olson, A.B. Braunschweig, L. Fang, T. Ikeda, R. Klajn, A. Trabolsi, C.A. Mirkin, B.A. Grzybowski, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2009**, *48*, 1792–1797. [45]
835. Active molecular plasmonics: Controlling plasmon resonances with molecular switches (Y.B. Zheng, Y.-W. Yang, L. Jensen, L. Fang, B.K. Juluri, A.H. Flood, P.S. Weiss, J.F. Stoddart, T.J. Huang), *Nano Lett.* **2009**, *9*, 819–825. [174]
836. Light-operated mechanized nanoparticles (D. Ferris, Y.-L. Zhao, N.M. Khashab, H.A. Khatib, J.F. Stoddart, J.I. Zink), *J. Am. Chem. Soc.* **2009**, *131*, 1686–1688. [394]
837. Redox-driven switching in pseudorotaxanes (A. Trabolsi, M. Hemadeh, N.M. Khashab, D.C. Friedman, M.E. Belowich, N. Humbert, M. Elhabiri, H.A. Khatib, A.-M. Albrecht-Gary, J.F. Stoddart), *New J. Chem.* **2009**, *33*, 254–263. [41]
838. Proton ionizable 1H-1,2,4-triazole π -electron deficient cyclophanes (S. Ramos, E. Alcade, J.F. Stoddart, A.J.P. White, D.J. Williams, L. Pérez-García), *New J. Chem.* **2009**, *33*, 300–317. [8]
839. A light-gated STOP-GO molecular shuttle (A. Coskun, D.C. Friedman, H. Li, K. Patel, H.A. Khatib, J.F. Stoddart), *J. Am. Chem. Soc.* **2009**, *131*, 2493–2495. [99]
840. Alternate state variables for emerging nanoelectronic devices (K. Galatsis, A. Khitun, R. Ostroumov, K.L. Wang, W.R. Dichtel, E. Plummer, J.F. Stoddart, J.I. Zink, J.Y. Lee, Y.-H. Xie, K.W. Kim) *IEEE Transactions on Nanotechnology* **2009**, *8*, 66–75. [23]
841. A mechanical actuator driven electrochemically by artificial molecular muscles (B.K. Juluri, A.S. Kumar, Y. Liu, T. Ye, Y.-W. Yang, A.H. Flood, L. Fang, J.F. Stoddart, P.S. Weiss, T.J. Huang), *ACS Nano* **2009**, *3*, 291–300. [176]

842. Inclusion behavior of β -cyclodextrin with bipyridine molecules: Factors governing host-guest inclusion geometries (Y.-L. Zhao, D. Benítez, I. Yoon, J.F. Stoddart), *Chem. Asian J.* **2009**, *4*, 446–459. [16]
843. The free energy barrier of molecular motions in bistable [2]rotaxane molecular electronic devices (H. Kim, W.A. Goddard III, S.S. Jang, W.R. Dichtel, J.R. Heath, J.F. Stoddart), *J. Phys. Chem. A*, **2009**, *113*, 2136–2143. [33]
844. Thither supramolecular chemistry? (J.F. Stoddart), *Nat. Chem.* **2009**, *1*, 14–15. [97]
845. Metal nanoparticles functionalized with molecular and supramolecular switches (R. Klajn, L. Fang, A. Coskun, M.A. Olson, P.J. Wesson, J.F. Stoddart, B.A. Grzybowski), *J. Am. Chem. Soc.* **2009**, *131*, 4233–4235. [88]
846. Synthesizing interlocked molecules dynamically (P.C. Haussmann, J.F. Stoddart), *Chem. Rec.* **2009**, *9*, 136–154. [48]
847. Rigidity-stability relationship in interlocked model complexes containing phenylene-ethynylene-based disubstituted naphthalene and phenylene (I. Yoon, D. Benítez, O.Š. Miljanić, Y.-L. Zhao, E. Tkatchouk, W.A. Goddard, III, J.F. Stoddart), *Crystal Growth and Design* **2009**, *9*, 2300–2309. [4]
848. Heterogeneous catalysis of a copper-coated atomic force microscopy tip for direct-write click chemistry (W.F. Paxton, J.M. Spruell, J.F. Stoddart) *J. Am. Chem. Soc.* **2009**, *131*, 6692–6694. [63]
849. Acid-base actuation of [c2]daisy chains (L. Fang, M. Hmadeh, J. Wu, M.A. Olson, J.M. Spruell, A. Trabolsi, Y.-W. Yang, M. Elhabri, A.-M. Albrecht-Gary, J.F. Stoddart), *J. Am. Chem. Soc.* **2009**, *131*, 7126–7134. [133]
850. A layered liquid crystalline droplet (Y.-L. Zhao, N. Erina, T. Yasuda, T. Kato, J.F. Stoddart), *J. Mater. Chem.* **2009**, *19*, 3469–3474. [7]
851. The master of chemical topology (J.F. Stoddart), *Chem. Soc. Rev.* **2009**, *38*, 1521–1529. [49]
852. The chemistry of the mechanical bond (J.F. Stoddart), *Chem. Soc. Rev.* **2009**, *38*, 1802–1820. [441]
853. Redox- and pH-controlled mechanized nanoparticles (N.M. Khashab, A. Trabolsi, Y. Lau, M.W. Ambrogio, H.A. Khatib, J.I. Zink, J.F. Stoddart), *Eur. J. Org. Chem.* **2009**, 1669–1673. [80]
854. Photoconductance and inverse photoconductance in thin films of functionalized metal nanoparticles (H. Nakanishi, K.J.M. Bishop, B. Kowalezyk, A. Nitzan, E.A. Weiss, K.V. Tretyakov, M.M. Apodaca, R. Klajn, J.F. Stoddart, B.A. Grzybowski), *Nature* **2009**, *460*, 371–375. [179]
855. An azobenzene-based light-responsive hydrogel system (Y.-L. Zhao, J.F. Stoddart), *Langmuir* **2009**, *25*, 8442–8446. [208]
856. Docking in metal-organic frameworks (Q. Li, W. Zhang, O.Š. Miljanić, C.-H. Sue, C. Knobler, Y.-L. Zhao, L. Liu, J.F. Stoddart, O.M. Yaghi), *Science* **2009**, *325*, 855–859. [261]
857. A bistable pretzelane (Y. Zhao, A. Trabolsi, J.F. Stoddart), *Chem. Commun.* **2009**, 4844–4846. [17]
858. Noncovalent functionalization of single-walled carbon nanotubes (Y.-L. Zhao, J.F. Stoddart) *Acc. Chem. Res.* **2009**, *42*, 1161–1171. [459]
859. Dual-controlled nanoparticles exhibiting AND logic (S. Angelos, Y.-W. Yang, N.M. Khashab, J.F. Stoddart, J.I. Zink), *J. Am. Chem. Soc.* **2009**, *131*, 11344–11346. [240]
860. A push-button molecular switch (J.M. Spruell, W.F. Paxton, J.-C. Olsen, D. Benítez, E. Tkatchouk, C.L. Stern, A. Trabolsi, D.C. Friedman, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2009**, *131*, 11571–11580. [88]
861. Mesostructured multifunctional nanoparticles for imaging and drug delivery (M. Liong, S. Angelos, E. Choi, K. Patel, J.F. Stoddart, J.I. Zink), *J. Mater. Chem.* **2009**, *19*, 6251–6257. [173]

862. pH-Responsive mechanised nanoparticles gated by semirotaxanes (N.M. Khashab, M.E. Belowich, A. Trabolsi, D.C. Friedman, C. Valente, Y. Lau, H.A. Khatib, J.I. Zink, J.F. Stoddart), *Chem. Commun.* **2009**, 5371–5373. [52]
863. Assembly of polygonal nanoparticles clusters directed by reversible noncovalent bonding interactions (M.A. Olson, A. Coskun, L. Fang, S. Dey, K. Browne, B.A. Grzybowski, J.F. Stoddart), *Nano Lett.* **2009**, *9*, 3185–3190. [61]
864. pH Clock-operated mechanized nanoparticles (S. Angelos, N.M. Khashab, Y.-W. Yang, A. Trabolsi, H.A. Khatib, J.F. Stoddart, J.I. Zink), *J. Am. Chem. Soc.* **2009**, *131*, 12912–12914. [258]
865. Molecular, supramolecular, and macromolecular motors and artificial muscles (D. Li, W.F. Paxton, R.H. Baughman, T.J. Huang, J.F. Stoddart, P.S. Weiss), *MRS Bulletin* **2009**, *34*, 671–681. [59]
866. Mechanised nanoparticles for drug delivery (K.K. Coti, M.E. Belowich, M. Liong, M.W. Ambrogio, Y. Lau, H.A. Khatib, J.I. Zink, N.M. Khashab, J.F. Stoddart), *Nanoscale* **2009**, *1*, 16–39. [387]
867. Thermodynamic forecasting of mechanically interlocked switches (M.A. Olson, A.B. Braunschweig, T. Ikeda, L. Fang, A. Trabolsi, A.M.Z. Slawin, S.I. Khan, C.A. Mirkin, J.F. Stoddart), *Org. Biomol. Chem.* **2009**, *7*, 4391–4405. [25]
868. Controlled access hollow mechanized silica nanoparticles (L. Du, S. Liao, J.F. Stoddart, J.I. Zink), *J. Am. Chem. Soc.* **2009**, *131*, 15136–15142. [255]
869. A general synthesis of macrocyclic π -electron-acceptor systems (H.M. Colquhoun, B.W. Greenland, Z. Zhu, J.S. Shaw, C.J. Cardin, S. Burattini, J.M. Elliott, S. Basu, T.B. Gasa, J.F. Stoddart), *Org. Lett.* **2009**, *11*, 5238–5241. [14]
870. Dynamic hook-and-eye nanoparticle sponges (R. Klajn, M.A. Olson, P.J. Wesson, L. Fang, A. Coskun, A. Trabolsi, J.F. Stoddart, B.A. Grzybowski), *Nat. Chem.* **2009**, *1*, 733–738. [75]
871. Rigid-strut-containing crown ethers and [2]catenanes for incorporation into metal–organic frameworks (Y.-L. Zhao, L. Liu, W. Zhang, C.-H. Sue, Q. Li, O.Š. Miljanić, O.M. Yaghi, J.F. Stoddart), *Chem. Eur. J.* **2009**, *13*, 13356–13380. [56]
872. Towards the stepwise assembly of molecular Borromean rings. A Donor-Acceptor Ring-in-Ring Complex (R.S. Forgan, J.M. Spruell, J.-C. Olsen, C.L. Stern, J.F. Stoddart), *J. Mex. Chem. Soc.* **2009**, *53*, 134–138. [14]
873. Radically enhanced molecular recognition (A. Trabolsi, N. Khashab, A.C. Fahrenbach, D.C. Friedman, M.T. Colvin, K.K. Cotí, D. Benítez, E. Tkatchouk, J.-C. Olsen, M.E. Belowich, R. Carmieli, H.A. Khatib, W.A. Goddard III, M.R. Wasielewski, J.F. Stoddart), *Nat. Chem.* **2010**, *2*, 42–49. [164]
874. The stability of imine-containing dynamic [2]rotaxanes to hydrolysis (K.C.-F. Leung, W.-Y. Yang, F. Aricó, P.C. Haussmann, J.F. Stoddart), *Org. Biomol. Chem.* **2010**, *8*, 83–89. [14]
875. Mechanically bonded macromolecules (L. Fang, M.A. Olson, J.F. Stoddart), *Chem. Soc. Rev.* **2010**, *39*, 17–29. [297]
876. A metal-organic framework replete with ordered donor-acceptor catenanes (Q. Li, W. Zhang, O.Š. Miljanić, C.B. Knobler, J.F. Stoddart, O.M. Yaghi), *Chem. Commun.* **2010**, *46*, 380–382. [68]
877. Improved synthesis of 1,5-dinaphtho[38]crown-10 (C.J. Bruns, S. Basu, J.F. Stoddart), *Tetrahedron Lett.* **2010**, *51*, 983–986. [23]
878. A tristable [2]pseudo[2]rotaxane (A. Trabolsi, A.C. Fahrenbach, A.I. Share, D.C. Friedman, T.B. Gasa, S.K. Dey, N.M. Khashab, S. Saha, I. Aprahamian, H.A. Khatib, A.H. Flood, J.F. Stoddart), *Chem. Commun.* **2010**, *46*, 871–873. [36]
879. A redox-switchable [2]rotaxane in a liquid-crystalline state (T. Yasuda, K. Tanabe, T. Tsuji, K.K. Cotí, I. Aprahamian, J.F. Stoddart, T. Kato), *Chem. Commun.* **2010**, *46*, 1224–1226. [60]

880. Molecular-mechanical switching at the metal nanoparticle-solvent interface (A. Coskun, R. Klajn, L. Fang, M.A. Olson, P.J. Wesson, A. Trabolsi, B.A. Grzybowski, J.F. Stoddart), *J. Am. Chem. Soc.*, **2010**, *132*, 4310–4320. [48]
881. On the thermodynamic and kinetic investigations of a [c2]daisy chain polymer (M. Hmadeh, L. Fang, A. Trabolsi, M. Elhabri, A.-M. Albrecht-Gary, J.F. Stoddart), *J. Mater. Chem.* **2010**, *20*, 3422–3430. [39]
882. Polycatenation under thermodynamic control (M.A. Olson, A. Coskun, L. Fang, A.N. Basuray, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2010**, *49*, 3151–3156. [22]
883. Self-assembly, stability quantification, controlled molecular switching and sensing properties of an anthracene-containing dynamic [2]rotaxane (W.-Y. Wong, K.C.-F. Leung, J.F. Stoddart), *Org. Biomol. Chem.* **2010**, *8*, 2332–2334. [23]
884. Improving pore exposure in mesoporous silica films for mechanized control of the pores (Y. Klichko, N.M. Khashab, Y.-W. Yang, S. Angelos, J.F. Stoddart, J.I. Zink), *Microporous Mesoporous Mater.* **2010**, *132*, 435–441. [23]
885. Nanoparticles functionalised with reversible molecular and supramolecular switches (R. Klajn, J.F. Stoddart, B.A. Grzybowski), *Chem. Soc. Rev.* **2010**, *39*, 2203–2237. [365]
886. Working mechanism for a redox switchable molecular machine based on cyclodextrin: A free energy profile approach (Q. Zhang, Y. Tu, H. Tian, Y.-L. Zhao, J.F. Stoddart, H. Agren), *J. Phys. Chem. B* **2010**, *114*, 6561–6566. [38]
887. Robust dynamics (H. Deng, M.A. Olson, J.F. Stoddart, O.M. Yaghi), *Nat. Chem.* **2010**, *2*, 439–443. [148]
888. Metal-organic frameworks with designed chiral recognition sites (C. Valente, E. Choi, M.E. Belowich, C.J. Doonan, T.B. Gasa, Y.Y. Botros, O.M. Yaghi, J.F. Stoddart), *Chem. Commun.* **2010**, *46*, 4911–4913. [56]
889. Mechanostereochemistry (M.A. Olson, Y.Y. Botros, J.F. Stoddart), *Pure Appl. Chem.* **2010**, *82*, 1569–1574. [43]
890. Enabling tetracationic cyclophane production by trading templates (C.-H. Sue, S. Basu, A.C. Fahrenbach, A.K. Shveyd, S.K. Dey, Y.Y. Botros, J.F. Stoddart), *Chem. Sci.* **2010**, *1*, 119–125. [56]
891. Changing stations in single bistable rotaxane molecules under electrochemical control (T. Ye, A.S. Kumar, S. Saha, T. Takami, T.J. Huang, J.F. Stoddart, P.S. Weiss), *ACS Nano* **2010**, *4*, 3697–3701. [60]
892. Snap-top nanocarriers (M.W. Ambrogio, T.A. Pecorelli, K. Patel, N.M. Khashab, A. Trabolsi, H.A. Khatib, Y.Y. Botros, J.I. Zink, J.F. Stoddart), *Org. Lett.* **2010**, *12*, 3304–3307. [92]
893. Noninvasive remote-controlled release of drug molecules *in vitro* using magnetic actuation with silica-encapsulated iron oxide (C.R. Thomas, D.P. Ferris, J.-H. Lee, E. Choi, M.H. Choo, E.S. Kim, J.-S. Shin, J.F. Stoddart, J. Cheon, J.I. Zink), *J. Am. Chem. Soc.* **2010**, *132*, 10623–10625. [446]
894. Directed self-assembly of a ring-in-ring complex (R.S. Forgan, D.C. Friedman, C.L. Stern, C.J. Bruns, J.F. Stoddart), *Chem. Commun.* **2010**, *46*, 5861–5863. [28]
895. Isolation by crystallization of translational isomers of a bistable donor-acceptor [2]catenane (C. Wang, M.A. Olson, L. Fang, D. Benítez, E. Tkatchouk, S. Basu, D. Zhang, D. Zhu, W.A. Goddard III, J.F. Stoddart), *Proc. Natl. Acad. Sci. USA* **2010**, *107*, 13991–13996. [35]
896. Autonomous *in vitro* anticancer drug release from mesoporous silica nanoparticles by pH-sensitive nanovalves (H. Meng, M. Xue T. Xia, Y.-L. Zhao, F. Tamanoi, J.F. Stoddart, A.E. Nel, J.I. Zink), *J. Am. Chem. Soc.* **2010**, *132*, 12690–12697. [422]
897. pH-Operated nanopistons on the surfaces of mesoporous silica nanoparticles (Y.-L. Zhao, Z. Li, S. Kagehie, Y.Y. Botros, J.F. Stoddart, J.I. Zink), *J. Am. Chem. Soc.* **2010**, *132*, 13016–13025. [255]

898. A catenated strut in a catenated metal-organic framework (Q. Li, C.-H. Sue, S. Basu, A.K. Shveyd, W. Zhang, G. Barin, L. Fang, A. Sarjeant, J.F. Stoddart, O.M. Yaghi), *Angew. Chem. Int. Ed.* **2010**, *49*, 6751–6755. [71]
899. Template-directed synthesis of rigid oligorotaxanes under thermodynamic control (M.E. Belowich, C. Valente, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2010**, *49*, 7208–7212. [43]
900. Highly stable tetrathiafulvalene radical dimers in [3]catenanes (J.M. Spruell, A. Coskun, D.C. Friedman, R.S. Forgan, A.A. Sarjeant, A. Trabolsi, A.C. Fahrenbach, G. Barin, W.F. Paxton, S.K. Dey, M.A. Olson, D. Benítez, E. Tkatchouk, M.T. Colvin, R. Carmieli, S.T. Caldwell, G.M. Rosair, S.G. Hewage, F. Duclairoir, J.L. Seymour, A.M.Z. Slawin, W.A. Goddard III, M.R. Wasielewski, G. Cooke, J.F. Stoddart), *Nat. Chem.* **2010**, *2*, 870–879. [113]
901. Mechanical bond formation by radical templation (H. Li, A.C. Fahrenbach, S.V. Dey, S. Basu, A. Trabolsi, Z. Zhu, Y.Y. Botros, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2010**, *49*, 8260–8265. [63]
902. Metal-organic frameworks from edible natural products (R.A. Smaldone, R.S. Forgan, H. Furukawa, J.J. Gassensmith, A.M.Z. Slawin, O.M. Yaghi, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2010**, *49*, 8630–8634. [249]
903. The dynamic chemistry of molecular Borromean rings and Solomon knots (C.D. Meyer, R.S. Forgan, K.S. Chichak, A.J. Peters, N. Tangchaivang, G.W.V. Cave, S.I. Khan, S.J. Cantrill, J.F. Stoddart), *Chem. Eur. J.* **2010**, *16*, 12570–12581. [55]
904. Excited state distortions in a charge transfer state of a donor–acceptor [2]rotaxane (R.M. Stephenson, X. Wang, A. Coskun, J.F. Stoddart, J.I. Zink), *Phys. Chem. Chem. Phys.* **2010**, *12*, 14135–14143. [6]
905. Chromatography in a single metal–organic framework (MOF) crystal (S. Han, Y. Wei, C. Valente, I. Lagzi, J.J. Gassensmith, A. Coskun, J.F. Stoddart, B.A. Grzybowski), *J. Am. Chem. Soc.* **2010**, *132*, 16358–16361. [143]
906. A short history of the mechanical bond (J.-C. Olsen, K.E. Griffiths, J.F. Stoddart), in *From Non-Covalent Assemblies to Molecular Machines*, Eds. J.-P. Sauvage, P. Gaspard, Wiley-VCH: Weinheim, Germany, 2011, pp. 67–139. [0]
907. Solution-phase counterion effects in supramolecular and mechanostereochemical systems (T.B. Gasa, C. Valente, J.-F. Stoddart), *Chem. Soc. Rev.* **2011**, *40*, 57–78. [67]
908. A multistate switchable [3]rotacatenane (G. Barin, A. Coskun, D.C. Friedman, M.A. Olson, M.T. Colvin, R. Carmieli, S.K. Dey, O.A. Bozdemir, M.R. Wasielewski, J.F. Stoddart), *Chem. Eur. J.* **2011**, *17*, 213–222. [50]
909. Imprinting chemical and responsive micropatterns into metal–organic frameworks (S. Han, Y. Wei, C. Valente, R.S. Forgan, J.J. Gassensmith, R.A. Smaldone, H. Nakanishi, A. Coskun, J.F. Stoddart, B.A. Grzybowski), *Angew. Chem. Int. Ed.* **2011**, *50*, 276–279. [51]
910. Mechanised materials (M.M. Boyle, R.A. Smaldone, A.C. Whalley, M.W. Ambrogio, Y.Y. Botros, J.F. Stoddart), *Chem. Sci.* **2011**, *2*, 204–210. [88]
911. A solid-state switch containing an electrochemically switchable bistable poly[n]rotaxane (W. Zhang, E. Delonno, W. Dichtel, L. Fang, A. Trabolsi, J.-C. Olsen, D. Benítez, J.R. Heath, J.F. Stoddart), *J. Mater. Chem.* **2011**, *21*, 1487–1495. [36]
912. Syntheses and dynamics of donor–acceptor [2]catenanes in water (L. Fang, S. Basu, C.-H. Sue, A.C. Fahrenbach, J.F. Stoddart), *J. Am. Chem. Soc.* **2011**, *133*, 396–399. [59]
913. Arranging pseudorotaxanes octahedrally around [60]fullerene (S.K. Dey, F. Beuerle, M.A. Olson, J.F. Stoddart), *Chem. Commun.* **2011**, *47*, 1425–1427. [14]
914. Donor–acceptor oligorotaxanes made to order (S. Basu, A. Coskun, D.C. Friedman, M.A. Olson, D. Benítez, E. Tkatchouk, G. Barin, J. Young, A.C. Fahrenbach, W.A. Goddard III, J.F. Stoddart), *Chem. Eur. J.*, **2011**, *17*, 2107–2119. [42]

915. Microcontact click printing for templating ultrathin films of metal–organic frameworks (J.J. Gassensmith, P.M. Erne, W.F. Paxton, C. Valente, J.F. Stoddart), *Langmuir* **2011**, *27*, 1341–1345. [26]
916. Dual stimulus switching of a [2]catenane in water (L. Fang, C. Wang, A.C. Fahrenbach, A. Trabolsi, Y.Y. Botros, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2011**, *50*, 1805–1809. [45]
917. Optical and vibrational properties of toroidal carbon nanotubes (F. Beuerle, C. Herrmann, A.C. Whalley, C. Valente, A. Gamburd, M.A. Ratner, J.F. Stoddart), *Chem. Eur. J.* **2011**, *17*, 3868–3875. [23]
918. Mechanically stabilized tetrathiafulvalene radical dimers (A. Coskun, J.M. Spruell, G. Barin, A.C. Fahrenbach, R.S. Forgan, M.T. Colvin, R. Carmieli, D. Benítez, E. Tkatchouk, D.C. Friedman, A.A. Sarjeant, M.R. Wasielewski, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2011**, *133*, 4538–4547. [90]
919. Degenerate [2]rotaxanes with electrostatic barriers (H. Li, Y.-L. Zhao, A.C. Fahrenbach, S.-Y. Kim, W.F. Paxton, J.F. Stoddart), *Org. Biomol. Chem.* **2011**, *9*, 2240–2250. [31]
920. Solid-state structures and superstructures of two charged donor–acceptor rotaxanes (Y.-L. Zhao, A.K. Shveyd, J.F. Stoddart), *Tetrahedron Lett.* **2011**, *52*, 2044–2047. [2]
921. Monofunctionalized pillar[5]arene as a host for alkanediamines (N.L. Strutt, R.S. Forgan, J.M. Spruell, Y.Y. Botros, J.F. Stoddart), *J. Am. Chem. Soc.* **2011**, *133*, 5668–5671. [374]
922. Surface-enhanced Raman spectroelectrochemistry of TTF-modified self-assembled monolayers (W.F. Paxton, S.L. Kleinman, A.N. Basuray, J.F. Stoddart, R.P. Van Duyne), *J. Phys. Chem. Lett.* **2011**, *2*, 1145–1149. [25]
923. Electrostatic barriers in rotaxanes and pseudorotaxanes (M. Hmadeh, A.C. Fahrenbach, S. Basu, A. Trabolsi, D. Benítez, H. Li, A.-M. Albrecht-Gary, M. Elhabiri, J.F. Stoddart), *Chem. Eur. J.* **2011**, *17*, 6076–6087. [51]
924. A redox-active reverse donor–acceptor bistable [2]rotaxane (S.K. Dey, A. Coskun, A.C. Fahrenbach, G. Barin, A.N. Basuray, A. Trabolsi, Y.Y. Botros, J.F. Stoddart), *Chem. Sci.* **2011**, *2*, 1046–1053. [45]
925. Mechanically interlocked mechanophores by living radical polymerization from rotaxane initiators (R.S. Stoll, D.C. Friedman, J.F. Stoddart), *Org. Lett.* **2011**, *13*, 2706–2709. [13]
926. Synthesis of biomolecule-modified mesoporous silica nanoparticles for targeted hydrophobic drug delivery to cancer cells (D.P. Ferris, J. Lu, C. Gothard, R. Yanes, C.R. Thomas, J.-C. Olsen, J.F. Stoddart, F. Tamanoi, J.I. Zink), *Small* **2011**, *7*, 1816–1826. [165]
927. A light-stimulated molecular switch driven by radical-radical interactions in water (H. Li, A.C. Fahrenbach, A. Coskun, Z. Zhu, G. Barin, Y. Zhao, Y.Y. Botros, J.-P. Sauvage, J.F. Stoddart), *Angew. Chem. Int. Ed. Engl.* **2011**, *50*, 6782–6788. [94]
928. Switchable photoconductivity of quantum dot films using cross-linking ligands with light-sensitive structures (G.D. Lilly, A.C. Whalley, S. Grunder, C. Valente, M.T. Frederick, J.F. Stoddart, E.A. Weiss), *J. Mater. Chem.* **2011**, *21*, 11492–11497. [18]
929. Chemical topology: Complex molecular knots, links, and entanglements (R.S. Forgan, J.-P. Sauvage, J.F. Stoddart), *Chem. Rev.* **2011**, *111*, 5434–5464. [433]
930. Covalent–organic frameworks with high charge carrier mobility (S. Wan, F. Gándara, A. Asano, H. Furukawa, A. Saeki, S.K. Dey, L. Liao, M.W. Ambrogio, Y.Y. Botros, X. Duan, S. Seki, J.F. Stoddart, O.M. Yaghi), *Chem. Mater.* **2011**, *23*, 4094–4097. [310]
931. Reactions under click chemistry philosophy employed in supramolecular and mechanostereochemical systems (A.C. Fahrenbach, J.F. Stoddart) *Chem. Asian. J.* **2011**, *6*, 2660–2669. [54]
932. A neutral redox-switchable [2]rotaxane (J.-C. Olsen, A.C. Fahrenbach, A. Trabolsi, D.C. Friedman, S.K. Dey, C.M. Gothard, A.K. Shveyd, T.B. Gasa, J.M. Spruell, M.A. Olson, C. Wang, H.-P. Jacquot de Rouville, Y.Y. Botros, J.F. Stoddart), *Org. Biomol. Chem.* **2011**, *9*, 7126–7133. [104]

933. Mechanized silica nanoparticles: A new frontier in theranostic nanomedicine (M.W. Ambrogio, C.R. Thomas, Y.-L. Zhao, J.I. Zink, J.F. Stoddart), *Acc. Chem. Res.* **2011**, *44*, 903–913. [455]
934. Strong and reversible binding of carbon dioxide in a green metal–organic framework (J.J. Gassensmith, H. Furukawa, R.A. Smaldone, R.S. Forgan, Y.Y. Botros, O.M. Yaghi, J.F. Stoddart), *J. Am. Chem. Soc.* **2011**, *133*, 15312–15315. [244]
935. Dynamic clicked surfaces based on functionalised pillar[5]arene (H. Zhang, N.L. Strutt, R.S. Stoll, H. Li, Z. Zhu, J.F. Stoddart), *Chem. Commun.* **2011**, *47*, 11420–11422. [81]
936. Donor–acceptor molecular figure-of-eight (M.M. Boyle, R.S. Forgan, D.C. Friedman, J.J. Gassensmith, J.F. Stoddart, J.-P. Sauvage), *Chem. Commun.* **2011**, *47*, 11870–11872. [24]
937. Measurement of the ground state distributions in bistable mechanically interlocked molecules using slow scan rate cyclic voltammetry (A.C. Fahrenbach, J.C. Barnes, H. Li, D. Benítez, A.N. Basuray, L. Fang, C.-H. Sue, G. Barin, S.K. Dey, W.A. Goddard III, J.F. Stoddart), *Proc. Natl. Acad. Sci.* **2011**, *108*, 20416–20421. [22]
938. Donor-acceptor ring-in-ring complexes (R.S. Forgan, C. Wang, D.C. Friedman, J.M. Spruell, C.L. Stern, A.A. Sarjeant, D. Cao, J.F. Stoddart), *Chem. Eur. J.* **2012**, *18*, 202–212. [23]
939. Great Expectations: Can artificial molecular machines deliver on their promise? (A. Coskun, M. Banaszak, R.D. Astumian, J.F. Stoddart, B.A. Grzybowski), *Chem. Soc. Rev.* **2012**, *41*, 19–30. [544]
940. Nanoporous carbohydrate metal–organic frameworks (R.S. Forgan, R.A. Smaldone, J.J. Gassensmith, H. Furukawa, D.B. Cordes, Q. Li, C.E. Wilmer, Y.Y. Botros, R.Q. Snurr, A.M.Z. Slawin, J.F. Stoddart), *J. Am. Chem. Soc.* **2012**, *134*, 406–417. [127]
941. A self-complexing and self-assembling pillar[5]arene (N.L. Strutt, H. Zhang, M.A. Giesener, J. Lei, J.F. Stoddart), *Chem. Commun.* **2012**, *48*, 1647–1649. [164]
942. Photoinduced memory effects in a redox controllable bistable mechanical molecular switch (T. Avellini, H. Li, A. Coskun, G. Baran, A. Trabolsi, A.N. Basuray, S.K. Dey, A. Credi, S. Silvi, J.F. Stoddart, M. Venturi), *Angew. Chem. Int. Ed.* **2012**, *51*, 1–6. [90]
943. Solution-phase mechanistic study and solid-state structure of a tris(bipyridinium radical cation) inclusion complex (A.C. Fahrenbach, J.C. Barnes, D.A. Lanfranchi, H. Li, A. Coskun, J.J. Gassensmith, Z. Liu, D. Benítez, A. Trabolsi, W.A. Goddard III, M. Elhabiri, J.F. Stoddart) *J. Am. Chem. Soc.* **2012**, *134*, 3061–3072. [86]
944. Metal–organic frameworks incorporating copper-complexed rotaxanes (A. Coskun, M. Hmadeh, G. Barin, F. Gándara, Q. Li, E. Choi, N.L. Strutt, D.B. Cordes, A.M.Z. Slawin, J.F. Stoddart, J.-P. Sauvage, O.M. Yaghi), *Angew. Chem. Int. Ed.* **2012**, *51*, 2160–2163. [61]
945. Dynamic imine chemistry (M.E. Belowich, J.F. Stoddart), *Chem. Soc. Rev.* **2012**, *41*, 2003–2024. [452]
946. The mechanical bond: A work of art (C.J. Bruns, J.F. Stoddart), *Top. Curr. Chem.* **2012**, *323*, 19–72. [39]
947. Polyporous metal-coordination frameworks (J.J. Gassensmith, R.A. Smaldone, R.S. Forgan, C.E. Wilmer, D.B. Cordes, Y.Y. Botros, A.M.Z. Slawin, R.Q. Snurr, J.F. Stoddart) *Org. Lett.* **2012**, *14*, 1460–1463. [22]
948. Mesoporous silica nanoparticles in biomedical applications (Z. Li, J.C. Barnes, A. Bosoy, J.F. Stoddart, J.I. Zink), *Chem. Soc. Rev.* **2012**, *41*, 2590–2605. [1120]
949. Positive cooperativity in the template-directed synthesis of monodisperse macromolecules (M.E. Belowich, C. Valente, R.A. Smaldone, D.C. Friedman, J. Thiel, L. Cronin, J.F. Stoddart), *J. Am. Chem. Soc.* **2012**, *134*, 5243–5261. [75]
950. Mechanically interlocked molecules assembled by π – π recognition (G. Barin, A. Coskun, M.M.G. Foudah, J.F. Stoddart), *ChemPlusChem.* **2012**, *77*, 159–185. [55]

951. Giving substance to the Losanitsch series (S. Grunder, J.F. Stoddart), *Chem. Commun.* **2012**, *48*, 3158–3160. **[6]**
952. Large pore apertures in a series of metal–organic frameworks (H. Deng, S. Grunder, K.E. Cordova, C. Valente, H. Furukawa, M. Hmadeh, F. Gándara, A.C. Whalley, Z. Liu, S. Asahina, H. Kazumorio, M. O’Keeffe, O. Terasaki, J.F. Stoddart, O.M. Yaghi), *Science* **2012**, *336*, 1018–1023. **[925]**
953. A rigid donor-acceptor daisy chain (D. Cao, C. Wang, M. Giesener, Z. Liu, J.F. Stoddart), *Chem. Commun.* **2012**, *48*, 6791–6793. **[11]**
954. Solvent-dependent ground state distributions in a donor-acceptor redox-active bistable [2]catenane (C. Wang, D. Cao, A.C. Fahrenbach, L. Fang, M.A. Olson, D.C. Friedman, S. Basu, S.K. Dey, Y.Y. Botros, J.F. Stoddart), *J. Phys. Org. Chem.* **2012**, *25*, 544–552. **[10]**
955. Stimulated release of size-selected cargos in succession from mesoporous silica nanoparticles (C. Wang, Z. Li, D. Cao, Y.-L. Zhao, J.W. Gaines, O.A. Bozdemir, M.W. Ambrogio, M. Frasconi, Y.Y. Botros, J.I. Zink, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2012**, *51*, 5460–5465. **[123]**
956. High hopes: Can molecular electronics realise its potential? (A. Coskun, J.M. Spruell, G. Barin, W.R. Dichtel, A.H. Flood, Y.Y. Botros, J.F. Stoddart), *Chem. Soc. Rev.* **2012**, *41*, 4827–4859. **[206]**
957. Mechanically induced intramolecular electron transfer in a mixed-valence molecular shuttle (J.C. Barnes, A.C. Fahrenbach, S.M. Dyar, M. Frasconi, M.A. Giesener, Z. Zhu, Z. Liu, K.J. Hartlieb, R. Carmieli, M.R. Wasielewski, J.F. Stoddart), *Proc. Natl. Acad. Sci. USA* **2012**, *109*, 11446–11551. **[39]**
958. Controlling switching in bistable [2]catenanes by combining donor-acceptor and radical-radical interactions (Z. Zhu, A.C. Fahrenbach, H. Li, J.C. Barnes, Z. Liu, S.M. Dyar, H. Zhang, J. Lei, R. Carmieli, A.A. Sarjeant, C.L. Stern, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2012**, *134*, 11709–11720. **[59]**
959. Oligomeric pseudorotaxanes adopting infinite-chain lattice superstructures (Z. Zhu, H. Li, Z. Liu, J. Lei, H. Zhang, Y.Y. Botros, C.L. Stern, A.A. Sarjeant, J.F. Stoddart, H.M. Colquhoun), *Angew. Chem. Int. Ed.* **2012**, *51*, 7231–7235. **[26]**
960. Synthesis, structure, and metalation of two new highly porous metal-organic frameworks (W. Morris, B. Voloskiy, S. Demir, F. Gándara, P.L. McGrier, H. Furukawa, D. Cascio, J.F. Stoddart, O.M. Yaghi), *Inorg. Chem.* **2012**, *51*, 6443–6445. **[393]**
961. High-contrast photopatterning of photoluminescence within quantum dot films through degradation of a charge-transfer quencher (M. Tagliacucchi, V. Amin, S.T. Schneebeli, J.F. Stoddart, E.A. Weiss), *Adv. Mater.* **2012**, *24*, 3617–3621. **[13]**
962. Rapid thermally assisted donor-acceptor catenation (A.C. Fahrenbach, K.J. Hartlieb, C.-H. Sue, C.J. Bruns, G. Barin, S. Basu, M.A. Olson, Y.Y. Botros, A. Bagabas, N.H. Khday, J.F. Stoddart), *Chem. Commun.* **2012**, *48*, 9141–9143. **[6]**
963. The effects of conformation on the noncovalent bonding interactions in a bistable donor-acceptor [3]catenane (C. Wang, D. Cao, A.C. Fahrenbach, S. Grunder, S.K. Dey, A.A. Sarjeant, J.F. Stoddart), *Chem. Commun.* **2012**, *48*, 9245–9247. **[10]**
964. Stereochemistry of molecular figures-of-eight (M.M. Boyle, J.J. Gassensmith, A.C. Whalley, R.S. Forgan, R.A. Smaldone, K.J. Hartlieb, A.K. Blackburn, J.-P. Sauvage, J.F. Stoddart), *Chem. Eur. J.* **2012**, *18*, 10312–10323. **[9]**
965. Room temperature ferroelectricity in supramolecular networks of charge-transfer complexes (A.S. Tayi, A.K. Shveyd, A.C.-H. Sue, J.M. Szarko, B. Rolczynski, D. Cao, T.J. Kennedy, A.A. Sarjeant, C.L. Stern, W.F. Paxton, W. Wu, S.K. Dey, A.C. Fahrenbach, J.R. Guest, H. Mohseni, L.X. Chen, K.L. Wang, J.F. Stoddart, S.I. Stupp), *Nature* **2012**, *488*, 485–489. **[266]**

966. Efficient long-range stereochemical communication and cooperative effects in self-assembled Fe₄L₆ cages (N. Ousaka, S. Grunder, A.M. Castilla, A.C. Whalley, J.F. Stoddart, J.R. Nitschke), *J. Am. Chem. Soc.* **2012**, *134*, 15528–15537. [57]
967. Cooperative self-assembly: producing synthetic polymers with precise and concise primary structures (A.-J. Avestro, M.E. Belowich, J.F. Stoddart), *Chem. Soc. Rev.* **2012**, *41*, 5881–5895. [79]
968. Self-assembly of a [2]pseudorota[3]catenane in water (R.S. Forgan, J.J. Gassensmith, D.B. Cordes, M.M. Boyle, K.J. Hartlieb, D.C. Friedman, A.M.Z. Slawin, J.F. Stoddart), *J. Am. Chem. Soc.* **2012**, *134*, 17007–17010. [26]
969. Ground-state thermodynamics of bistable redox-active donor-acceptor mechanically interlocked molecules (A.C. Fahrenbach, C.J. Bruns, D. Cao, J.F. Stoddart), *Acc. Chem. Res.* **2012**, *45*, 1581–1592. [80]
970. Radically enhanced molecular switches (A.C. Fahrenbach, Z. Zhu, D. Cao, W.-G. Liu, H. Li, S.K. Dey, S. Basu, A. Trabolsi, Y.Y. Botros, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2012**, *134*, 16275–16288. [164]
971. Modular synthesis of bipyridinium oligomers and corresponding donor-acceptor oligorotaxanes with crown ethers (C.M. Gothard, C.J. Bruns, N.A. Gothard, B.A. Grzybowski, J.F. Stoddart), *Org. Lett.* **2012**, *14*, 5066–5069. [14]
972. Mechanostereochemistry and the mechanical bond (G. Barin, R.S. Forgan, J.F. Stoddart), *Proc. R. Soc. A.* **2012**, *468*, 2849–2880. [37]
973. A neutral naphthalene diimide [2]rotaxane (H.-P. Jacquot de Rouville, J. Iehl, C.J. Bruns, P.L. McGrier, M. Frasconi, A.A. Sarjeant, J.F. Stoddart), *Org. Lett.* **2012**, *14*, 5188–5191. [24]
974. Dynamic covalent templated-synthesis of [c2]daisy chains (O.A. Bozdemir, G. Barin, M.E. Belowich, A.N. Basuray, F. Beuerle, J.F. Stoddart), *Chem. Commun.* **2012**, *48*, 10401–10403. [13]
975. The chameleonic nature of diazaperopyrenium recognition processes (A.N. Basuray, H.-P. Jacquot de Rouville, K.J. Hartlieb, T. Kikuchi, N.L. Strutt, C.J. Bruns, M.W. Ambrogio, A.-J. Avestro, S.T. Schneebeli, A.C. Fahrenbach, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2012**, *51*, 11872–11877. [11]
976. Incorporation of an A1/A2-difunctionalized pillar[5]arene into a metal–organic framework (N.L. Strutt, D. Fairen-Jimenez, J. Iehl, M.B. LaLonde, R.Q. Snurr, O.K. Farha, J.T. Hupp, J.F. Stoddart), *J. Am. Chem. Soc.* **2012**, *134*, 17436–17439. [162]
977. A semiconducting organic radical cationic host–guest complex (A.C. Fahrenbach, S. Sampath, D.J. Late, J.C. Barnes, S.L. Kleinman, N. Valley, K.J. Hartlieb, Z. Liu, V.P. Dravid, G.C. Schatz, R.P. Van Duyne, J.F. Stoddart), *ACS Nano* **2012**, *6*, 9964–9971. [27]
978. Molecular gauge blocks for building on the nanoscale (S. Grunder, C. Valente, A.C. Whalley, S. Sampath, J. Portmann, Y.Y. Botros, J.F. Stoddart), *Chem. Eur. J.* **2012**, *18*, 15632–15649. [21]
979. Tetrathiafulvalene hetero radical cation dimerization in a redox-active [2]catenane (C. Wang, S.M. Dyer, D. Cao, A.C. Fahrenbach, N. Horwitz, M.T. Colvin, R. Carmieli, C.L. Stern, S.K. Dey, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2012**, *134*, 19136–19145. [18]
980. Size selective pH-operated megagates on mesoporous silica materials (M. Xue, D. Cao, J.F. Stoddart, J.I. Zink), *Nanoscale* **2012**, *4*, 7569–7574. [25]
981. Highly efficient ultrafast electron injection from the singlet MLCT excited state of Cu(I)-diimine complexes to TiO₂ nanoparticles (J. Huang, O. Buyukcakir, M.W. Mara, A. Coskun, N.M. Dimitrijvic, G. Barin, O. Kokhan, A.B. Stickrath, R. Ruppert, D.M. Tiede, J.F. Stoddart, J.-P. Sauvage, L.X. Chen) *Angew. Chem. Int. Ed.* **2012**, *51*, 12711–12715. [57]
982. From supramolecular to systems chemistry: complexity emerging out of simplicity (J.F. Stoddart), *Angew. Chem. Int. Ed.* **2012**, *51*, 12902–12903. [34]

983. Quantitative emergence of hetero[4]rotaxanes by template-directed click chemistry (C. Ke, R.A. Smaldone, T. Kikuchi, H. Li, A.P. Davis, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2013**, *52*, 381–387. [64]
984. Patterned assembly of quantum dots onto surfaces modified with click microcontact printing (J.J. Gassensmith, P.M. Erne, W.F. Paxton, M.D. Donakowski, J.F. Stoddart), *Adv. Mater.* **2013**, *2*, 223–276. [10]
985. Organic switches for surfaces and devices (A.C. Fahrenbach, S.C. Warren, J.T. Inconvati, A.-J. Avestro, J.C. Barnes, J.F. Stoddart, B.A. Grzybowski), *Adv. Mater.* **2013**, *3*, 331–348. [118]
986. ExBox: A polycyclic aromatic hydrocarbon scavenger (J.C. Barnes, M. Juríček, N.L. Strutt, M. Frasconi, S. Sampath, M.A. Giesener, P.L. McGrier, C.J. Bruns, C.L. Stern, A.A. Sarjeant, J.F. Stoddart), *J. Am. Chem. Soc.* **2013**, *135*, 183–192. [156]
987. Mechanical bond-induced radical stabilization (H. Li, Z. Zhu, A.C. Fahrenbach, B.M. Savoie, C. Ke, J.C. Barnes, J. Lei, Y.-L. Zhao, L.M. Lilley, T.J. Marks, M.A. Ratner, J.F. Stoddart), *J. Am. Chem. Soc.* **2013**, *135*, 456–467. [58]
988. Molecular machines muscle up (C.J. Bruns, J.F. Stoddart), *Nat. Nanotech.* **2013**, *8*, 9–10. [58]
989. A radically configurable six-state compound (J.C. Barnes, A.C. Fahrenbach, D. Cao, S.M. Dyar, M. Frasconi, M.A. Giesener, D. Benítez, E. Tkatchouk, O. Chernyashkevskyy, W.H. Shin, H. Li, C.L. Stern, A.A. Sarjeant, K.J. Hartlieb, Z. Liu, R. Carmieli, Y.Y. Botros, J.W. Choi, A.M.Z. Slawin, J.B. Ketterson, M.R. Wasielewski, W.A. Goddard III, J.F. Stoddart), *Science* **2013**, *339*, 429–433. [93]
990. Chameleonic binding of the dimethyldiazaperopyrenium dication by cucurbit[8]uril (K.J. Hartlieb, A.N. Basuray, C. Ke, A.A. Sarjeant, H.-P. Jacquot de Rouville, T. Kikuchi, R.S. Forgan, J.W. Kurutz, J.F. Stoddart), *Asian J. Org. Chem.* **2013**, *2*, 225–229. [6]
991. Beyond perylene diimides – diazaperopyrenium dications as chameleonic nanoscale building blocks (A.N. Basuray, H.-P. Jacquot de Rouville, K.J. Hartlieb, A.C. Fahrenbach, J.F. Stoddart), *Chem. Asian J.* **2013**, *8*, 524–532. [8]
992. π -Dimerization of viologen subunits around the core of C₆₀ from twelve to six directions (J. Iehl, M. Frasconi, H.-P. Jacquot de Rouville, N. Renaud, S.M. Dyar, N.L. Strutt, R. Carmieli, M.R. Wasielewski, M.A. Ratner, J.-F. Nierengarten, J.F. Stoddart), *Chem. Sci.* **2013**, *4*, 1462–1469. [33]
993. Synthesis and solution-state dynamics of donor-acceptor oligorotaxane foldamers (Z. Zhu, C.J. Bruns, H. Li, J. Lei, C. Ke, Z. Liu, S. Shafaie, H.M. Colquhoun, J.F. Stoddart), *Chem. Sci.* **2013**, *4*, 1470–1483. [24]
994. Redox-controlled selective docking in a [2]catenane host (G. Barin, M. Frasconi, S.M. Dyar, J. Iehl, O. Buyukcakir, A.A. Sarjeant, R. Carmieli, A. Coskun, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2013**, *135*, 2466–2469. [17]
995. Asararenes – A family of large aromatic macrocycles (S.T. Schneebeli, C. Cheng, K.J. Hartlieb, N.L. Strutt, A.A. Sarjeant, C.L. Stern, J.F. Stoddart), *Chem. Eur. J.* **2013**, *12*, 3860–3868. [28]
996. γ -Cyclodextrin cuprate sandwich-type complexes (A.A. Bagabas, M. Frasconi, J. Iehl, B. Hauser, O. Farha, J.T. Hupp, K.J. Hartlieb, Y.Y. Botros, J.F. Stoddart), *Inorg. Chem.* **2013**, *52*, 2854–2861. [13]
997. Interlocked molecules: a molecular production line (P.R. McGonigal, J.F. Stoddart), *Nat. Chem.* **2013**, *5*, 260–262. [18]
998. Direct calorimetric measurement of enthalpy of adsorption of carbon dioxide on CD-MOF-2, a green metal-organic framework (D. Wu, J.J. Gassensmith, D. Gouvêa, S. Ushakov, J.F. Stoddart, A. Navrotsky), *J. Am. Chem. Soc.* **2013**, *135*, 6790–6793. [77]
999. Selective isolation of gold facilitated by second-sphere coordination by α -cyclodextrin (Z. Liu, M. Frasconi, J. Lei, Z.J. Brown, Z. Zhu, D. Cao, J. Iehl, G. Liu, A.C. Fahrenbach, O.K. Farha, J.T. Hupp, C.A. Mirkin, Y.Y. Botros, J.F. Stoddart), *Nat. Commun.* **2013**, *4*, Article 1855. [77]
1000. Direct exfoliation of graphite to graphene in aqueous media with diazaperopyrenium dications (S. Sampath, A.N. Basuray, K.J. Hartlieb, T. Aytun, S.I. Stupp, J.F. Stoddart), *Adv. Mater.* **2013**, *25*, 2740–2745. [55]

1001. Photophysical pore control in an azobenzene-containing metal-organic framework (J.W. Brown, B.L. Henderson, M.D. Kiesz, A.C. Whalley, W. Morris, S. Grunder, H. Deng, H. Furukawa, J.I. Zink, J.F. Stoddart, O.M. Yaghi), *Chem. Sci.* **2013**, *4*, 2858–2864. [132]
1002. Electronic and optical vibrational spectroscopy of molecular tunnel junctions created by on-wire lithography (A.S. Schmucker, G. Barin, K.A. Brown, M. Rycenga, A. Coskun, O. Buyukcakir, K.D. Osberg, J.F. Stoddart, C.A. Mirkin), *Small* **2013**, *9*, 1900–1903. [7]
1003. Three-dimensional architectures incorporating stereoregular donor-acceptor stacks (D. Cao, M. Juriček, Z.J. Brown, A.C.-H. Sue, Z. Liu, J. Lei, A.K. Blackburn, S. Grunder, A.A. Sarjeant, A. Coskun, C. Wang, O.K. Farha, J.T. Hupp, J.F. Stoddart), *Chem. Eur. J.* **2013**, *19*, 8457–8465. [13]
1004. BODIPY–Thiophene copolymers as *p*-channel semiconductors for organic thin-film transistors (H. Usta, M.D. Yilmaz, A.-J. Avestro, D. Boudinet, M. Denti, W. Zhao, J.F. Stoddart, A. Facchetti), *Adv. Mater.* **2013**, *25*, 4327–4334. [53]
1005. Photo-expulsion of surface-grafted ruthenium complexes and subsequent release of cytotoxic cargos to cancer cells from mesoporous silica nanoparticles (M. Frasconi, Z. Liu, J. Lei, Y. Wu, E. Strelakova, D. Malin, M.W. Ambrogio, X. Chen, Y.Y. Botros, V.L. Cryns, J.-P. Sauvage, J.F. Stoddart), *J. Am. Chem. Soc.* **2013**, *135*, 11603–11613. [85]
1006. Ex²Box: Interdependent modes of binding in a two-nanometer-long synthetic receptor (M. Juriček, J.C. Barnes, E.J. Dale, W.-G. Liu, N.L. Strutt, C.J. Bruns, N.A. Vermeulen, K. Ghooray, A.A. Sarjeant, C.L. Stern, Y.Y. Botros, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2013**, *135*, 12736–12746. [56]
1007. Mechanized silica nanoparticles based on pillar[5]arene for on-command cargo release (Y.-L. Sun, Y.-W. Yang, D.-X. Chen, G. Wang, Y. Zhou, C.-Y. Wang, J.F. Stoddart), *Small* **2013**, *9*, 3224–3229. [151]
1008. Stereochemical inversion in difunctionalised pillar[5]arenes (N.L. Strutt, S.T. Schneebeli, J.F. Stoddart), *Supramol. Chem.* **2013**, *25*, 596–608. [14]
1009. Aromatizing olefin metathesis by ligand isolation inside a metal-organic framework (N.A. Vermeulen, O. Karagiari, A.A. Sarjeant, C.L. Stern, J.T. Hupp, O.K. Fahra, J.F. Stoddart), *J. Am. Chem. Soc.* **2013**, *135*, 14916–14919. [42]
1010. Interface-engineered bistable [2]rotaxane-graphene hybrids with logic capabilities (C. Jia, H. Li, J. Jiang, J. Wang, H. Chen, D. Cao, J.F. Stoddart, X. Guo), *Adv. Mater.* **2013**, *25*, 6752–6759. [27]
1011. Mechanically interlaced and interlocked donor-acceptor foldamers (C.J. Bruns, J.F. Stoddart), *Adv. Poly. Sci.* **2013**, *261*, 271–294. [9]
1012. Recognition between V- and dumbbell-shaped molecules (W.-Y. Wong, S.-F. Lee, H.-S. Chan, T.C.W. Mak, C.-H. Wong, L.-S. Huang, J.F. Stoddart, K.C.-F. Leung), *RSC Advances*. **2013**, *3*, 26382–26390. [2]
1013. Electron sharing and anion– π recognition in molecular triangular prisms (S.T. Schneebeli, M. Frasconi, Z. Liu, Y. Wu, D.M. Gardner, N.L. Strutt, C. Cheng, R. Carmieli, M.R. Wasielewski, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2013**, *52*, 13100–13104. [107]
1014. Pillar[5]arene as a co-factor in templating rotaxane formation (C. Ke, N.L. Strutt, H. Li, X. Hou, K.J. Hartlieb, P.R. McGonigal, Z. Ma, J. Iehl, C.L. Stern, C. Cheng, Z. Zhu, N.A. Vermeulen, T.J. Meade, Y.Y. Botros, J.F. Stoddart), *J. Am. Chem. Soc.* **2013**, *135*, 17019–17030. [76]
1015. A water-soluble pH-triggered molecular switch (S. Grunder, P.L. McGrier, A.C. Whalley, M.M. Boyle, C. Stern, J.F. Stoddart), *J. Am. Chem. Soc.* **2013**, *135*, 17691–17694. [53]
1016. Relative unidirectional translation in an artificial molecular assembly fueled by light (H. Li, C. Cheng, P.R. McGonigal, A.C. Fahrenbach, M. Frasconi, W.-G. Liu, Z. Zhu, Y. Zhao, C. Ke, J. Lei, R.M. Young, S.M. Dyar, D.T. Co, Y.-W. Yang, Y.Y. Botros, W.A. Goddard III, M.R. Wasielewski, R.D. Astumian, J.F. Stoddart), *J. Am. Chem. Soc.* **2013**, *135*, 18609–18620. [60]
1017. Ultrafast conformational dynamics of electron transfer in ExBox⁴⁺-perylene (R.M. Young, S.M. Dyar, J.C. Barnes, M. Juriček, J.F. Stoddart, D.T. Co, M.R. Wasielewski), *J. Phys. Chem. A* **2013**, *117*, 12438–12448. [74]
1018. Synthesis of ExⁿBox cyclophanes (J.C. Barnes, M. Juriček, N.A. Vermeulen, E.J. Dale, J.F. Stoddart), *J. Org. Chem.* **2013**, *78*, 11962–11969. [40]

1019. Metal–organic framework thin films composed of free-standing acicular nanorods exhibiting reversible electrochromism (C.-W. Kung, T. C. Wang, J.E. Mondloch, D. Fairen-Jimenez, D. M. Gardner, W. Bury, J.M. Klingsporn, J.C. Barnes, R. Van Duyne, J.F. Stoddart, M.R. Wasielewski, O.K. Farha, J.T. Hupp), *Chem. Mater.* **2013**, *25*, 5012–5017. [115]
1020. Topological isomerism in a chiral handcuff catenane (K.J. Hartlieb, A.K. Blackburn, S.T. Schneebeli, R.S. Forgan, A.A. Sarjeant, C.L. Stern, D. Cao, J.F. Stoddart), *Chem. Sci.* **2014**, *5*, 90–100. [10]
1021. An electrochemically and thermally switchable donor-acceptor [c2]daisy chain rotaxane (C.J. Bruns, J. Li, M. Frasconi, S.T. Schneebeli, J. lehl, H.-P. Jacquot de Rouville, S.I. Stupp, G.A. Voth, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2014**, *53*, 1953–1958. [37]
1022. Ground-state kinetics of bistable redox-active donor-acceptor mechanically interlocked molecules (A.C. Fahrenbach, C.J. Bruns, H. Li, A. Trabolsi, A. Coskun, J.F. Stoddart), *Acc. Chem. Res.* **2014**, *47*, 482–493. [66]
1023. Induced-fit catalysis of corannulene bowl-to-bowl inversion (M. Juriček, N.L. Strutt, J.C. Barnes, A.M. Butterfield, E.J. Dale, K.K. Baldrige, J.F. Stoddart, J.S. Siegel), *Nat. Chem.* **2014**, *6*, 222–228. [77]
1024. A reversible light-operated nanovalve on mesoporous silica nanoparticles (D. Tarn, D.P. Ferris, J.C. Barnes, M.W. Ambrogio, J.F. Stoddart, J.I. Zink), *Nanoscale* **2014**, *6*, 3335–3343. [74]
1025. Redox switchable daisy chain rotaxanes driven by radical–radical interactions (C.J. Bruns, M. Frasconi, J. lehl, K.J. Hartlieb, S.T. Schneebeli, C. Cheng, S.I. Stupp, J.F. Stoddart), *J. Am. Chem. Soc.* **2014**, *136*, 4714–4723. [67]
1026. The topological and chemical implications of introducing oriented rings to [3]catenanes (R.S. Forgan, A.K. Blackburn, M.M. Boyle, S.T. Schneebeli, J.F. Stoddart), *Supramol. Chem.* **2014**, *26*, 192–201. [2]
1027. Gated electron sharing within dynamic naphthalene diimide-based oligorotaxanes (A.-J. Avestro, D.M. Gardner, N.A. Vermeulen, E.A. Wilson, S.T. Schneebeli, A.C. Whalley, M.E. Belowich, R. Carmieli, M.R. Wasielewski, J.F. Stoddart) *Angew. Chem. Int. Ed.* **2014**, *53*, 4442–4449. [34]
1028. Fluorescence enhancement of a porphyrin-viologen dyad by pseudorotaxane formation with cucurbit[7]uril (M. Fathalla, N.L. Strutt, J.C. Barnes, C.L. Stern, C. Ke, J.F. Stoddart), *Eur. J. Org. Chem.* **2014**, *14*, 2873–2877. [8]
1029. Electron-transfer and multi-electron accumulation in ExBox⁴⁺ (S.M. Dyar, J.C. Barnes, M. Juriček, J.F. Stoddart, D.T. Co, R.M. Young, M.R. Wasielewski), *Angew. Chem. Int. Ed.* **2014**, *53*, 5371–5375. [17]
1030. Efficient synthesis of pillar[6]arene-based hetero[4]rotaxanes using a cooperative capture strategy (X. Hou, C. Ke, C. Cheng, N. Song, A.K. Blackburn, A.A. Sarjeant, Y.Y. Botros, Y.-W. Yang, J.F. Stoddart), *Chem. Commun.* **2014**, *50*, 6196–6199. [63]
1031. An ExBox [2]catenane (M. Juriček, J.C. Barnes, N.L. Strutt, N.A. Vermeulen, K.C. Ghooray, E.J. Dale, P.R. McGonigal, A.K. Blackburn, J.F. Stoddart), *Chem. Sci.* **2014**, *5*, 2724–2731. [18]
1032. Second-sphere coordination revisited (Z. Liu, S.T. Schneebeli, J.F. Stoddart), *Chimia* **2014**, *68*, 315–320. [24]
1033. A metal-organic framework-based material for electrochemical sensing of carbon dioxide (J.J. Gassensmith, J.Y. Kim, J.M. Holcroft, O.K. Farha, J.F. Stoddart, J.T. Hupp, N.C. Jeong), *J. Am. Chem. Soc.* **2014**, *136*, 8277–8282. [121]
1034. Enantiopure pillar[5]arene active domains within a homochiral metal-organic framework (N.L. Strutt, H. Zhang, J.F. Stoddart), *Chem. Commun.* **2014**, *50*, 7455–7458. [38]
1035. Rotaxane-based molecular muscles (C.J. Bruns, J.F. Stoddart), *Acc. Chem. Res.* **2014**, *47*, 2186–2199. [277]
1036. Formation of a hetero[3]rotaxane by a dynamic component-swapping strategy (E.A. Wilson, N.A. Vermeulen, P.R. McGonigal, A.-J. Avestro, A.A. Sarjeant, C.L. Stern, J.F. Stoddart), *Chem. Commun.* **2014**, *50*, 9665–9668. [19]
1037. Relative contractile motion of the rings in a switchable palindromic [3]rotaxane in water driven by radical-pairing interactions (L.S. Witus, K.J. Hartlieb, Y. Wang, A. Prokofjevs, M. Frasconi, J.C. Barnes, E.J. Dale, A.C. Fahrenbach, J.F. Stoddart), *Org. Biomol. Chem.* **2014**, *12*, 6089–6093. [15]

1038. Solid-state characterization and photoinduced intramolecular electron transfer in a nanoconfined octacationic homo[2]catenane (J.C. Barnes, M. Frasconi, R.M. Young, N.H. Khadry, W.-G. Liu, S.M. Dyar, P.R. McGonigal, I.C. Gibbs-Hall, C. Diercks, A.A. Sarjeant, C.L. Stern, W.A. Goddard III, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2014**, *136*, 10569–10572. [17]
1039. ExCage (E.J. Dale, N.A. Vermeulen, A.A. Thomas, J.C. Barnes, M. Juriček, A.K. Blackburn, N.L. Strutt, A.A. Sarjeant, C.L. Stern, S.E. Denmark, J.F. Stoddart), *J. Am. Chem. Soc.* **2014**, *136*, 10669–10682. [54]
1040. Mechanical bonds and topological effects in radical dimer stabilization (M. Frasconi, T. Kikuchi, D. Cao, Y. Wu, S.M. Dyar, W.-G. Liu, G. Barin, A.A. Sarjeant, R. Carmieli, C. Wang, M.R. Wasielewski, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2014**, *136*, 11011–11026. [28]
1041. Photocurrent generation from a low band-gap and green BODIPY-based electrochromic polymer (M.D. Yilmaz, T. Aytun, M. Frasconi, S.I. Stupp, J.F. Stoddart), *Synthetic Met.* **2014**, *197*, 52–57. [7]
1042. A square-planar tetracoordinate oxygen-containing Ti₄O₁₇ cluster stabilized by two 1,1'-ferrocene-dicarboxylato ligands (Z. Liu, J. Lei, M. Frasconi, X. Li, D. Cao, Z. Zhu, S.T. Schneebeli, G.C. Schatz, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2014**, *53*, 9193–9197. [24]
1043. Electron delocalization in a rigid cofacial naphthalene-1,8:4,5-bis(dicarboximide) dimer (Y. Wu, M. Frasconi, D.M. Gardner, P.R. McGonigal, S.T. Schneebeli, M.R. Wasielewski, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2014**, *53*, 9476–9481. [62]
1044. Amino-functionalized pillar[5]arene (N.L. Strutt, H. Zhang, S.T. Schneebeli, J.F. Stoddart), *Chem. Eur. J.* **2014**, *20*, 10996–11004. [28]
1045. Functionalizing pillar[n]arenes (N.L. Strutt, H. Zhang, S.T. Schneebeli, J.F. Stoddart), *Acc. Chem. Res.* **2014**, *47*, 2631–2642. [248]
1046. Emergent ion-gated binding of cationic host–guest complexes with cationic M₁₂L₂₄ molecular flasks (C.J. Brunns, D. Fujita, M. Hoshino, S. Sato, J.F. Stoddart, M. Fujita), *J. Am. Chem. Soc.* **2014**, *136*, 12027–12034. [0]
1047. Two-point halogen bonding between 3,6-dihalopyromellitic diimides (D. Cao, M. Hong, A.K. Blackburn, Z. Liu, J.M. Holcroft, J.F. Stoddart), *Chem. Sci.* **2014**, *5*, 4242–4248. [24]
1048. Extended metal-carbohydrate frameworks (Z. Liu, J.F. Stoddart), *Pure Appl. Chem.* **2014**, *86*, 1323–1334. [12]
1049. Putting mechanically interlocked molecules (MIMs) to work in tomorrow's world (J.F. Stoddart), *Angew. Chem. Int. Ed.* **2014**, *53*, 11102–11104. [45]
1050. Photoinduced electron transfer within a zinc porphyrin–cyclobis(paraquat-*p*-phenylene) donor–acceptor dyad (M. Fathalla, J.C. Barnes, R.M. Young, K.J. Hartlieb, S.M. Dyar, S.W. Eaton, A.A. Sarjeant, D.T. Co, M.R. Wasielewski, J.F. Stoddart), *Chem. Eur. J.* **2014**, *20*, 14690–14697. [12]
1051. Energetically demanding transport in a supramolecular assembly (C. Cheng, P.R. McGonigal, W.-G. Liu, H. Li, N.A. Vermeulen, C. Ke, M. Frasconi, C.L. Stern, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2014**, *136*, 14702–14705. [38]
1052. A hafnium-based metal-organic framework as an efficient and multifunctional catalyst for facile CO₂ fixation and regioselective and enantioselective epoxide activation (M.H. Beyzavi, R.C. Klet, S. Tussupbayev, J. Borycz, N.A. Vermeulen, C.J. Cramer, J.F. Stoddart, J.T. Hupp, O.K. Fahra), *J. Am. Chem. Soc.* **2014**, *136*, 15861–15864. [269]
1053. Assembly of supramolecular nanotubes from molecular triangles and 1,2-dihalohydrocarbons (Z. Liu, G. Liu, Y. Wu, D. Cao, J. Sun, S.T. Schneebeli, M.S. Nassar, C.A. Mirkin, J.F. Stoddart), *J. Am. Chem. Soc.* **2014**, *136*, 16651–16660. [51]
1054. Lock-arm supramolecular ordering: A molecular construction set for cocrystallizing organic charge transfer complexes (A.K. Blackburn, A.C.-H. Sue, A.K. Shveyd, D. Cao, A. Tayi, A. Narayanan, B.S. Rolczynski, J.M. Sarko, O.A. Bozdemir, R. Wakabayashi, J.A. Lehrman, B. Kahr, L.X. Chen, M.S. Nassar, S.I. Stupp, J.F. Stoddart), *J. Am. Chem. Soc.* **2014**, *136*, 17224–17235. [35]

1055. Sugar and pH dual-responsive mesoporous silica nanocontainers based on competitive binding mechanisms (M.D. Yilmaz, M. Xue, M.W. Ambrogio, O. Buyukcakir, Y. Wu, M. Frascioni, X. Chen, M.S. Nassar, J.F. Stoddart, J.I. Zink), *Nanoscale* **2015**, *7*, 1067–1072. [36]
1056. Modulating the binding of polycyclic aromatic hydrocarbons inside a hexacationic cage by anion– π interactions (N. Hafezi, J.M. Holcroft, K.J. Hartlieb, E.J. Dale, N.A. Vermeulen, C.L. Stern, A.A. Sarjeant, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2015**, *54*, 456–461. [34]
1057. Formation of ring-in-ring complexes between crown ethers and rigid TVBox⁸⁺ (J. Sun, M. Frascioni, Z. Liu, J.C. Barnes, Y. Wang, D. Chen, C.L. Stern, J.F. Stoddart), *Chem. Commun.* **2015**, *51*, 1432–1435. [9]
1058. Folding of oligoviologens induced by radical–radical interactions (Y. Wang, M. Frascioni, W.-G. Liu, Z. Liu, A.A. Sarjeant, M.S. Nassar, Y.Y. Botros, W.A. Goddard, III, J.F. Stoddart), *J. Am. Chem. Soc.* **2015**, *137*, 876–885. [43]
1059. Semiconducting single crystals comprising segregated arrays of complexes of C-60 (J.C. Barnes, E.J. Dale, A. Prokofjevs, A. Narayanan, I.C. Gibbs-Hall, M. Juríček, C.L. Stern, A.A. Sarjeant, Y.Y. Botros, S.I. Stupp, J.F. Stoddart), *J. Am. Chem. Soc.* **2015**, *137*, 2392–2399. [21]
1060. Anticancer activity expressed by a library of 2,9-diazaperopyrenium dications (K.J. Hartlieb, L.S. Witus, D.P. Ferris, A.N. Basuray, M.M. Algaradah, A.A. Sarjeant, C.L. Stern, M.S. Nassar, Y.Y. Botros, J.F. Stoddart), *ACS Nano* **2015**, *9*, 1461–1470. [6]
1061. Functionalized defects through solvent-assisted linker exchange: Synthesis, characterization, and partial postsynthesis elaboration of a metal–organic framework containing free carboxylic acid moieties (O. Karagiari, N.A. Vermeulen, R.C. Klet, T.C. Wang, P.Z. Moghadam, S.S. Al-Juaid, J.F. Stoddart, J.T. Hupp, O.K. Farha), *Inorg. Chem.* **2015**, *54*, 1785–1790. [30]
1062. Ultrahigh surface area zirconium MOFs and insights into the applicability of the BET theory (T.C. Wang, W. Bury, D.A. Gómez-Gualdrón, N.A. Vermeulen, J.E. Mondloch, P. Deria, K. Zhang, P.Z. Moghadam, A.A. Sarjeant, R.Q. Snurr, J.F. Stoddart, J.T. Hupp, O.K. Farha), *J. Am. Chem. Soc.* **2015**, *137*, 3585–3591. [157]
1063. Complexation of polyoxometalates with cyclodextrins (Y. Wu, R. Shi, Y.-L. Wu, J.M. Holcroft, Z. Liu, M. Frascioni, M.R. Wasielewski, H. Li, J.F. Stoddart), *J. Am. Chem. Soc.* **2015**, *137*, 4111–4118. [71]
1064. Esterase- and pH-responsive poly(beta-aminoester)-capped mesoporous silica nanoparticles for drug delivery (I.R. Fernando, D.P. Ferris, M. Frascioni, D. Malin, E. Strelakova, M.D. Yilmaz, M.W. Ambrogio, M.M. Algaradah, M.P. Hong, X. Chen, M.S. Nassar, Y.Y. Botros, V.L. Cryns, J.F. Stoddart), *Nanoscale* **2015**, *7*, 7178–7183. [33]
1065. Oxime ligation on the surface of mesoporous silica nanoparticles (D.P. Ferris, P.R. McGonigal, L.S. Witus, T. Kawaji, M.M. Algaradah, A.R. Alnajada, M.S. Nassar, J.F. Stoddart), *Org. Lett.* **2015**, *17*, 2146–2149. [10]
1066. Heterogeneity of functional groups in a metal-organic framework displays magic number ratios (A.C.-H. Sue, R.V. Mannige, H. Deng, D. Cao, C. Wang, F. Gándara, J.F. Stoddart, S. Whitelam, O.M. Yaghi), *Proc. Natl. Acad. Sci. USA.* **2015**, *112*, 5591–5596. [20]
1067. Carbohydrate-mediated purification of petrochemicals (J.M. Holcroft, K.J. Hartlieb, P.Z. Moghadam, J.G. Bell, G. Barin, D.P. Ferris, E.D. Bloch, M.M. Algaradah, M.S. Nassar, Y.Y. Botros, K.M. Thomas, J.R. Long, R.Q. Snurr, J.F. Stoddart), *J. Am. Chem. Soc.* **2015**, *137*, 5706–5719. [58]
1068. A rigid naphthalenediimide triangle for organic rechargeable lithium-ion batteries (D. Chen, A.-J. Avestro, Z. Chen, J. Sun, S. Wang, M. Xiao, Z. Erno, M.M. Algaradah, M.S. Nassar, K. Amine, Y. Meng, J.F. Stoddart), *Adv. Mater.* **2015**, *27*, 2907–2912. [58]
1069. Controlling association kinetics in the formation of donor-acceptor pseudorotaxanes (P.R. McGonigal, H. Li, C. Cheng, S.T. Schneebeli, M. Frascioni, L.S. Witus, J.F. Stoddart), *Tetrahedron Lett.* **2015**, *56*, 3591–3594. [10]
1070. Tunable solid-state fluorescent materials for supramolecular encryption (X. Hou, C. Ke, C.J. Bruns, P.R. McGonigal, R.B. Pettman, J.F. Stoddart), *Nat. Commun.* **2015**, *6*, Article 6884. [161]
1071. An artificial molecular pump (C. Cheng, P.R. McGonigal, S.T. Schneebeli, H. Li, N.A. Vermeulen, C. Ke, J.F. Stoddart), *Nat. Nanotech.* **2015**, *10*, 547–553. [179]

1072. Porphyrinic supramolecular daisy chains incorporating pillar[5]arene–viologen host–guest interactions (M. Fathalla, N.L. Strutt, S. Sampath, K. Katsiev, K.J. Hartlieb, O.M. Bakr, J.F. Stoddart), *Chem. Commun.* **2015**, 51, 10455–10459. [36]
1073. Visible light-driven artificial molecular switch actuated by radical–radical and donor–acceptor interactions (J. Sun, Y. Wu, Z. Liu, D. Cao, Y. Wang, C. Cheng, D. Chen, M.R. Wasielewski, J.F. Stoddart), *J. Phys. Chem. A* **2015**, 119, 6317–6325. [17]
1074. Activation-enabled syntheses of functionalized pillar[5]arene derivatives (J. Han, X. Hou, C. Ke, H. Zhang, N.L. Strutt, C.L. Stern, J.F. Stoddart), *Org. Lett.* **2015**, 17, 3260–3263. [17]
1075. Electron injection from copper diimine sensitizers into TiO₂: Structural effects and their implications for solar energy conversion devices (M.W. Mara, D.N. Bowan, O. Buyukcakir, M.L. Shelby, K. Haldrup, J. Huang, M.R. Harpham, A.B. Stickrath, X. Zhang, J.F. Stoddart, A. Coskun, E. Jakubikova, L.X. Chen), *J. Am. Chem. Soc.* **2015**, 137, 9670–9684. [33]
1076. A platform for change (J.F. Stoddart), *Supramol. Chem.* **2015**, 27, 567–570. [5]
1077. Design and synthesis of nonequilibrium systems (C. Cheng, P.R. McGonigal, J.F. Stoddart, R.D. Astumian), *ACS Nano* **2015**, 9, 8672–8688. [70]
1078. Redox control of the binding modes of an organic receptor (M. Frasconi, I.R. Fernando, Y. Wu, Z. Liu, W.-G. Liu, S.M. Dyar, G. Barin, M.R. Wasielewski, W.A. Goddard, III, J.F. Stoddart), *J. Am. Chem. Soc.* **2015**, 137, 11057–11068. [21]
1079. Electrochemically addressable trisradical rotaxanes organized within a metal–organic framework (P.R. McGonigal, P. Deria, I. Hod, P.Z. Moghadam, A.-J. Avestro, N.E. Horwitz, I.C. Gibbs-Hall, A.K. Blackburn, D. Chen, Y.Y. Botros, M.R. Wasielewski, R.Q. Snurr, J.T. Hupp, O.K. Farha, J.F. Stoddart), *Proc. Natl. Acad. Sci. USA* **2015** 112, 11161–11168. [46]
1080. Charge and spin transport in an organic molecular square (Y. Wu, S.K.M. Nalluri, R.M. Young, M.D. Krzyaniak, E.A. Margulies, J.F. Stoddart, M.R. Wasielewski), *Angew. Chem. Int. Ed.* **2015**, 54, 11971–11977. [26]
1081. Ultrafast photoinduced symmetry breaking charge separation and electron sharing in perylene diimide molecular triangles (Y. Wu, R.M. Young, M. Frasconi, S.T. Schneebeli, P. Spent, D.M. Gardner, K.E. Brown, F. Würthner, J.F. Stoddart, M.R. Wasielewski), *J. Am. Chem. Soc.* **2015**, 137, 13236–13239. [41]
1082. Allosteric modulation of substrate binding within a tetracationic receptor (J.J. Henkelis, A.K. Blackburn, E.J. Dale, N.A. Vermeulen, M.S. Nassar, J.F. Stoddart), *J. Am. Chem. Soc.* **2015**, 137, 13252–13255. [14]
1083. An electrochromic tristable molecular switch (J. Sun, Y. Wu, Y. Wang, Z. Liu, C. Cheng, K.J. Hartlieb, D. Chen, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2015**, 137, 13484–13487. [39]
1084. A hafnium-based metal-organic framework as a nature-inspired tandem reaction catalyst (M.H. Beyzavi, N.A. Vermeulen, A.J. Howarth, S. Tussupbayev, A.B. League, N.M. Schweitzer, J.R. Gallagher, A.E. Platero-Prats, N. Hafezi, A.A. Sarjeant, J.T. Miller, K.W. Chapman, J.F. Stoddart, C.J. Cramer, J.T. Hupp, O.K. Farha), *J. Am. Chem. Soc.* **2015**, 137, 13624–13631. [70]
1085. Energy and electron transfer dynamics within a series of perylene diimide/cyclophane hosts (S.T.J. Ryan, R.M. Young, J.J. Henkelis, N. Hafezi, N.A. Vermeulen, A. Hennig, E.J. Dale, Y. Wu, M.D. Krzyaniak, A. Fox, W.M. Nau, M.R. Wasielewski, J.F. Stoddart, O.A. Scherman), *J. Am. Chem. Soc.* **2015**, 137, 15299–15307. [23]
1086. Catenation through a combination of radical templation and ring-closing metathesis (I.C. Gibbs-Hall, N.A. Vermeulen, E.J. Dale, J.J. Henkelis, A.K. Blackburn, J.C. Barnes, J.F. Stoddart), *J. Am. Chem. Soc.* **2015**, 137, 15640–15643. [14]
1087. Scalable synthesis and post-modification of a mesoporous metal-organic framework called NU-01000 (T.C. Wang, N.A. Vermeulen, I.S. Kim, A.B.F. Martinson, J.F. Stoddart, J.T. Hupp, O.K. Farha), *Nat. Protocols* **2016**, 11, 149–162. [87]
1088. Quantum mechanical and experimental validation that cyclobis(paraquat-*p*-phenylene) forms a 1:1 inclusion complex with tetrathiafulvalene (K.J. Hartlieb, W.-G. Liu, A.C. Fahrenbach, A.K. Blackburn, M. Frasconi, N.

- Hafezi, S.K. Dey, A.A. Sarjeant, C.L. Stearn, W.A. Goddard III, J.F. Stoddart), *Chem. Eur. J.* **2016**, *22*, 2736–2745. [3]
1089. Supramolecular explorations: Exhibiting the extent of extended cationic cyclophanes (E.J. Dale, N.A. Vermeulen, M. Juriček, J.C. Barnes, R.M. Young, M.R. Wasielewski, J.F. Stoddart), *Acc. Chem. Res.* **2016**, *49*, 262–273. [67]
1090. CD-MOF: A versatile separation medium (K.J. Hartlieb, J.M. Holcroft, P.Z. Moghadam, N.A. Vermeulen, M.M. Algaradah, M.S. Nassar, Y.Y. Botros, R.Q. Snurr, J.F. Stoddart), *J. Am. Chem. Soc.* **2016**, *138*, 2292–2301. [109]
1091. Oligorotaxane radicals under orders (Y. Wang, M. Frasconi, W.-G. Liu, J. Sun, Y. Wu, M.S. Nassar, Y.Y. Botros, W.A. Goddard III, M.R. Wasielewski, J.F. Stoddart), *ACS Cent. Sci.* **2016**, *2*, 89–98. [25]
1092. Non-interpenetrated metal–organic frameworks based on copper(II) paddlewheel and oligoparaxylene-isophthalate linkers: Synthesis, structure, and gas adsorption (Y. Yan, M. Juriček, F.-X. Coudert, N.A. Vermeulen, S. Grunder, A. Dailly, W. Lewis, A.J. Blake, J.F. Stoddart, M. Schröder), *J. Am. Chem. Soc.* **2016**, *138*, 3371–3381. [61]
1093. Supramolecular gelation of rigid triangular macrocycles through rings of multiple C–H···O interactions operating cooperatively (Z. Liu, J. Sun, Y. Zhou, Y. Zhang, Y. Wu, S.K.M. Nalluri, Y. Wang, A. Samanta, C.A. Mirkin, G.C. Schatz, J.F. Stoddart), *J. Org. Chem.* **2016**, *81*, 2581–2588. [16]
1094. Cooperative reactivity in an extended-viologen-based cyclophane (E.J. Dale, D.P. Ferris, N.A. Vermeulen, J.J. Henkelis, I. Popovs, M. Juriček, J.C. Barnes, S.T. Schneebeli, J.F. Stoddart), *J. Am. Chem. Soc.* **2016**, *138*, 3667–3670. [7]
1095. Chiral redox-active isosceles triangles (S.K.M. Nalluri, Z. Liu, Y. Wu, K.R. Hermann, A. Samanta, D.J. Kim, M.D. Krzyaniak, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2016**, *138*, 5968–5977. [26]
1096. Ultrafast two-electron transfer in a CdS quantum dot–extended-viologen cyclophane complex (R.M. Young, S.C. Jensen, K. Edme, Y. Wu, M.D. Krzyaniak, N.A. Vermeulen, E.J. Dale, J.F. Stoddart, E.A. Weiss, M.R. Wasielewski, D.T. Co), *J. Am. Chem. Soc.* **2016**, *138*, 6163–6170. [25]
1097. Wholly synthetic molecular machines (C. Cheng, J.F. Stoddart), *ChemPhysChem* **2016**, *17*, 1780–1793. [61]
1098. Cooperative capture synthesis: Yet another playground for copper-free click chemistry (X. Hou, C. Ke, J.F. Stoddart), *Chem. Soc. Rev.* **2016**, *45*, 3766–3780. [60]
1099. A metal-organic framework immobilised iridium pincer complex (M. Rimoldi, A. Nakamura, N.A. Vermeulen, J.J. Henkelis, A.K. Blackburn, J.T. Hupp, J.F. Stoddart, O.K. Farha), *Chem. Sci.* **2016**, *7*, 4980–4984. [32]
1100. Influence of constitution and charge on radical pairing interactions in tris-radical tricationic complexes (C. Cheng, T. Cheng, H. Xiao, M.D. Krzyaniak, Y. Wang, P.R. McGonigal, M. Frasconi, J.C. Barnes, A.C. Fahrenbach, M.R. Wasielewski, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2016**, *138*, 8288–8300. [10]
1101. Sliding-ring catenanes (I.R. Fernando, M. Frasconi, Y. Wu, W.-G. Liu, M.R. Wasielewski, W.A. Goddard III, J. F. Stoddart), *J. Am. Chem. Soc.* **2016**, *138*, 10214–10225. [15]
1102. Concurrent covalent and supramolecular polymerization (X. Hou, C. Ke, Y. Zhou, Z. Xie, A. Alngadh, D.T. Keane, M.S. Nassar, Y.Y. Botros, C.A. Mirkin, J.F. Stoddart), *Chem. Eur. J.* **2016**, *22*, 12301–12306. [8]
1103. Design and synthesis of a water-stable anionic uranium-based metal-organic framework (MOF) with ultra large pores (P. Li, N.A. Vermeulen, X. Gong, C.D. Malliakas, J.F. Stoddart, J.T. Hupp, O.K. Farha), *Angew. Chem. Int. Ed.* **2016**, *55*, 10358–10362. [55]
1104. Cation-dependent gold recovery with α -cyclodextrin facilitated by second-sphere coordination (Z. Liu, A. Samanta, J. Lei, J. Sun, Y. Wang, J.F. Stoddart), *J. Am. Chem. Soc.* **2016**, *138*, 11643–11653. [29]
1105. Symbiotic control in mechanical bond formation (Y. Wang, J. Sun, Z. Liu, M.S. Nassar, Y.Y. Botros, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2016**, *55*, 12387–12392. [8]
1106. Layer-by-layer assembled films of perylene diimide- and squaraine-containing metal–organic framework-like materials: Solar energy capture and directional energy transfer (H.J. Park, M.C. So, D. Gosztola, G.P. Wiederrecht, J.D. Emery, A.B.F. Martinson, S. Er, C.E. Wilmer, N.A. Vermeulen, A. Aspuru-Guzik, J.F. Stoddart, O.K. Farha, J.T. Hupp), *ACS Appl. Mater. Interfaces* **2016**, *8*, 24983–24988. [20]

1107. Supramolecular double-helix formation by diastereoisomeric conformations of configurationally enantio-meric macrocycles (A. Samanta, Z. Liu, S.K.M. Nalluri, Y. Zhang, G.C. Schatz, J.F. Stoddart), *J. Am. Chem. Soc.* **2016**, *138*, 14469–14480. [20]
1108. Flexible ferroelectric organic crystals (M. Owczarek, K.A. Hujsak, D.P. Ferris, A. Prokofjevs, I. Majerz, P. Szklarz, H. Zhang, A.A. Sarjeant, C.L. Stern, R. Jakubas, S. Hong, V.P. Dravid, J.F. Stoddart), *Nat. Commun.* **2016**, *7*, Article 13108. [59]
1109. In silico discovery of metal-organic frameworks for precombustion CO₂ capture using a genetic algorithm (Y.G. Chung, D.A. Gómez-Gualdrón, P. Li, K.T. Leperi, P. Deria, H. Zhang, N.A. Vermeulen, J.F. Stoddart, F. You, J.T. Hupp, O.K. Farha, R.Q. Snurr), *Sci. Adv.* **2016**, *2*, e1600909. [53]
1110. A redox-active bistable molecular switch mounted inside a metal–organic framework (Q. Chen, J. Sun, P. Li, I. Hod, P.Z. Moghadem, Z.S. Kean, R.Q. Snurr, J.T. Hupp, O.K. Farha, J.F. Stoddart), *J. Am. Chem. Soc.* **2016**, *138*, 14242–14245. [48]
1111. Optimized synthesis and crystalline stability of γ -cyclodextrin metal-organic frameworks for drug adsorption (B. Liu, H. Li, X. Xu, X. Li, N. Lv, V. Singh, J.F. Stoddart, P. York, X. Xu, R. Gref, J. Zhang), *Int. J. Pharm.* **2016**, *514*, 212–219. [32]
1112. Complex formation dynamics in a single-molecule electronic device (H. Wen, W. Li, J. Chen, G. He, L. Li, M.A. Olson, A.C.-H. Sue, J.F. Stoddart, X. Guo), *Sci. Adv.* **2016**, *2*, e1601113. [24]
1113. Postsynthetic incorporation of a singlet oxygen photosensitizer in a metal–organic framework for fast and selective oxidative detoxification of sulfur mustard (A.J. Howarth, C.T. Buru, Y. Liu, A.M. Ploskonka, K.J. Hartlieb, M. McEntee, J.J. Mahle, J.H. Buchanan, E.M. Durke, S.S. Al-Juaid, J.F. Stoddart, J.B. DeCoste, J.T. Hupp, O.K. Farha), *Chem. Eur. J.* **2017**, *23*, 214–218. [29]
1114. Radically promoted formation of a molecular lasso (Y. Wang, J. Sun, Z. Liu, M.S. Nassar, Y.Y. Botros, J.F. Stoddart), *Chem. Sci.* **2017**, *8*, 2562–2568. [13]
1115. Spin frustration in the triradical trianion of a naphthalenediimide molecular triangle (Y. Wu, M.D. Krzyaniak, J.F. Stoddart, M.R. Wasielewski), *J. Am. Chem. Soc.* **2017**, *139*, 2948–2951. [25]
1116. Size-matched radical multivalency (M.C. Lipke, T. Chang, Y. Wu, H. Arslan, H. Xiao, M.R. Wasielewski, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2017**, *139*, 3986–3998. [15]
1117. Intramolecular energy and electron transfer within a diazaperopyrenium-based cyclophane (X. Gong, R.M. Young, K.J. Hartlieb, C. Miller, Y. Wu, H. Xiao, P. Li, N. Hafezi, J. Zhou, L. Ma, T. Cheng, W.A. Goddard III, O.K. Farha, J.T. Hupp, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2017**, *139*, 4107–4116. [16]
1118. Encapsulation of Ibuprofen in CD-MOF and related bioavailability studies (K.J. Hartlieb, D.P. Ferris, J.M. Holcroft, I. Kandela, C.L. Stern, M.S. Nassar, Y.Y. Botros, J.F. Stoddart), *Mol. Pharm.* **2017**, *14*, 1831–1839. [38]
1119. Redox-active macrocycles for organic rechargeable batteries (D.J. Kim, K.R. Hermann, A. Prokofjevs, M.T. Otley, C. Pezzato, M. Owczarek, J.F. Stoddart), *J. Am. Chem. Soc.* **2017**, *139*, 6635–6643. [31]
1120. Surveying macrocyclic chemistry: From flexible crown ethers to rigid cyclophanes (Z. Liu, S.K.M. Nalluri, J.F. Stoddart), *Chem. Soc. Rev.* **2017**, *46*, 2459–2478. [154]
1121. A boat-shaped tetracationic macrocycle with a semiconducting organic framework (M.T. Nguyen, M.D. Krzyaniak, M. Owczarek, D.P. Ferris, M.R. Wasielewski, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2017**, *56*, 5795–5800. [8]
1122. Mastering the non-equilibrium assembly and operation of molecular machines (C. Pezzato, C. Cheng, J. F. Stoddart, R. D. Astumian), *Chem. Soc. Rev.* **2017**, *46*, 5491–5507. [61]
1123. Composite CD-MOF nanocrystals-containing microspheres for sustained drug delivery (H. Li, N. Lv, X. Li, B. Liu, J. Feng, X. Ren, T. Guo, D. Chen, J. F. Stoddart, R. Gref, J. Zhang), *Nanoscale* **2017**, *9*, 7454–7463. [49]
1124. Functionalised cyclodextrin-based metal–organic frameworks (K. J. Hartlieb, A. W. Peters, T. C. Wang, P. Deria, O. K. Farha, J. T. Hupp, J. F. Stoddart), *Chem. Commun.* **2017**, *53*, 7561–7564. [23]

1125. Ferroelectric polarization and second harmonic generation in supramolecular co-crystals with two axes of charge-transfer (A. Narayanan, D. Cao, L. Frazer, A. S. Tayi, A. K. Blackburn, A. C.-H. Sue, J. B. Ketterson, J. F. Stoddart, S. I. Stupp), *J. Am. Chem. Soc.* **2017**, *139*, 9186–9191. [19]
1126. Molecular Borromean rings: From controlled construction to potential applications (Y. Wang, J. F. Stoddart), *Chem* **2017**, *3*, 17–18. [1]
1127. Conflicting evidence for ferroelectricity reply (A.S. Tayi, A.K. Shveyd, A.C.-H. Sue, J.M. Szarko, B.S. Rolczynski, D. Cao, T.J. Kennedy, A.A. Sarjeant, C.L. Stern, W.F. Paxton, W. Wu, S.K. Dey, A.C. Fahrenbach, J.R. Guest, H. Mohseni, L.X.Chen. K.L. Wang, J.F. Stoddart, S.I. Stupp) *Nature* **2017**, *547*, E14–E15. [2]
1128. Noninvasive substitution of K⁺ sites in cyclodextrin metal–organic frameworks by Li⁺ ions (H.A. Patel, T. Islamoglu, Z. Liu, S.K.M. Nalluri, A. Samanta, O. Anamimoghadam, C.D. Malliakas, O.K. Farha, J.F. Stoddart), *J. Am. Chem. Soc.* **2017**, *139*, 11020–11023. [21]
1129. Introducing stable radicals into molecular machines (Y. Wang, M. Frasconi, J.F. Stoddart), *ACS Cent. Sci.* **2017**, *3*, 927–935. [28]
1130. Mechanical-bond-protected, air-stable radicals (J. Sun, Z. Liu, W.-G. Liu, Y. Wu, Y. Wang, J.C. Barnes, K. R. Hermann, W. A. Goddard III, M. R. Wasielewski, J. F. Stoddart), *J. Am. Chem. Soc.* **2017**, *139*, 12704–12709. [13]
1131. Mechanically interlocked molecules (MIMs)—Molecular shuttles, switches, and machines (Nobel Lecture) (J. F. Stoddart), *Angew. Chem. Int. Ed.* **2017**, *56*, 11094–11125. [180]
1132. An efficient artificial molecular pump (C. Pezzato, M.T. Nguyen, C. Cheng, D.J. Kim, M.T. Otley, J.F. Stoddart), *Tetrahedron* **2017**, *73*, 4849–4857. [10]
1133. Probing distance dependent charge-transfer character in excimers of extended viologen cyclophanes using femtosecond vibrational spectroscopy (Y. Wu, J. Zhou, B.T. Phelan, C.M. Mauck, J.F. Stoddart, R.M. Young, M.R. Wasielewski), *J. Am. Chem. Soc.* **2017**, *139*, 14265–14276. [16]
1134. Where ion mobility and molecular dynamics meet to unravel the (un)folding mechanisms of an oligorotaxane molecular switch (E. Hanozin, B. Mignolet, D. Morsa, D. Sluysmans, A.-S. Duwez, J.F. Stoddart, F. Remacle, E.D. Pauw), *ACS Nano* **2017**, *11*, 10253–10263. [5]
1135. X-Shaped oligomeric pyromellitimide polyradicals (Y. Wu, J.-M. Han, M. Hong, M.D. Krzyaniak, A.K. Blackburn, I.R. Fernando, D.D. Cao, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2018**, *140*, 515–523. [8]
1136. Synthetic oligorotaxanes exert high forces when folding under mechanical load (D. Sluysmans, S. Hubert, C.J. Bruns, Z. Zhu, J.F. Stoddart, A.-S. Duwez), *Nat. Nanotechnol.* **2018**, *13*, 209–213. [5]
1137. Doing your own thing (J.F. Stoddart), *Nat. Nanotechnol.* **2018**, *13*, 268.
1138. Hierarchically engineered mesoporous metal-organic frameworks toward cell-free immobilized enzyme systems (P. Li, Q. Chen, T.C. Wang, N.A. Vermeulen, B.L. Mehdi, A. Dohnalkova, N.D. Browning, D. Shen, R. Anderson, D.A. Gómez-Gualdrón, F.M. Cetin, J. Jagiello, A.A. Asiri, J.F. Stoddart, O.K. Farha), *Chem* **2018**, *4*, 1022–1034. [47]
1139. Shuttling rates, electronic states, and hysteresis in a ring-in-ring rotaxane (M.C. Lipke, Y. Wu, I. Roy, Y. Wang, M.R. Wasielewski, J.F. Stoddart), *ACS Cent. Sci.* **2018**, *4*, 362–371. [5]
1140. Toward a charged homo[2]catenane employing diazapyrenium homophilic recognition (X.Gong, J. Zhou, K.J. Hartlieb, C. Miller, P. Li, O.K. Farha, J.T. Hupp, R.M. Young, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2018**, *140*, 6540–6544. [2]
1141. ExTzBox: A glowing cyclophane for live cell imaging (I. Roy, S. Bobbla, J. Zhou, M.T. Nguyen, S.K.M. Nalluri, Y. Wu, D.P. Ferris, A.E. Scott, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2018**, *140*, 7206–7212. [17]
1142. Controlling dual molecular pumps electrochemically (C. Pezzato, M.T. Nguyen, D.J. Kim, O. Anamimoghadam, L. Mosca, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2018**, *57*, 9325–9329. [9]

1143. Proton conduction in Tröger's base-linked poly(crown ether)s (H.A. Patel, J. Selberg, D. Salah, H. Chen, Y. Liao, S.K.M. Nalluri, O.K. Farha, R.Q. Snurr, M. Rolandi, J.F. Stoddart), *ACS Appl. Mater. Interfaces* **2018**, *10*, 25303–25310. [3]
1144. Mixed-valence superstructure assembled from a mixed-valence host-guest complex (Z. Liu, M. Frascioni, W.-G. Liu, Y. Zhang, S.M. Dyer, D. Shen, A.A. Sarjeant, W.A. Goddard III, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2018**, *140*, 9387–9391. [3]
1145. Epitaxial growth of γ -cyclodextrin metal-organic frameworks based on a host-guest chemistry (D. Shen, G. Wang, Z. Liu, P. Li, K. Cai, C. Cheng, Y. Shi, J.-M. Han, C.-W. Kung, X. Gong, Q.-H. Guo, H. Chen, A.C.-H. Sue, Y.Y. Botros, A. Facchetti, O.K. Farha, T.J. Marks, J.F. Stoddart), *J. Am. Chem. Soc.* **2018**, *140*, 11402–11407. [7]
1146. The growing community of artificial molecular machines (D. Sluysmans, J.F. Stoddart), *Proc. Natl. Acad. Sci. U.S.A.* **2018**, *115*, 9359–9361. [61]
1147. Dynamic force spectroscopy of synthetic oligorotaxane foldamers (D. Sluysmans, F. Devaux, C.J. Bruns, J. F. Stoddart, A.-S. Duwez), *Proc. Natl. Acad. Sci. U.S.A.* **2018**, *115*, 9362–9366. [6]
1148. Densely charged dodecacationic [3]- and tetracosacationic radial [5]catenanes (M.T. Nguyen, D.P. Ferris, C. Pezzato, Y. Wang, J.F. Stoddart), *Chem* **2018**, *4*, 2329–2344. [6]
1149. Neighboring component effect in a tristable [2]rotaxane (Y. Wang, T. Cheng, J. Sun, Z. Liu, M. Frascioni, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2018**, *140*, 13827–13834. [3]
1150. Selective extraction of C₇₀ by a tetragonal prismatic porphyrin cage (Y. Shi, K. Cai, H. Xiao, Z. Liu, J. Zhou, D. Shen, Y. Qiu, C. Stern, M.R. Wasielewski, F. Diederich, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2018**, *140*, 13835–13842. [16]
1151. Molecular Russian dolls (K. Cai, M.C. Lipke, Z. Liu, J. Nelson, T. Cheng, Y. Shi, C. Cheng, D. Shen, J.-M. Han, S. Vemuri, Y. Feng, C.L. Stern, W.A. Goddard III, M.R. Wasielewski, J.F. Stoddart), *Nat. Commun.* **2018**, *9*, 5275. [3]
1152. Rechargeable aluminium organic batteries (D.J. Kim, D.-J. Yoo, M.T. Otley, A. Prokofjevs, C. Pezzato, M. Owczarek, S.J. Lee, J.W. Choi, J.F. Stoddart), *Nat. Energy* **2018**, *4*, 51–59. [9]
1153. The burgeoning of mechanically interlocked molecules in chemistry (D. Sluysmans, J.F. Stoddart), *Trends in Chemistry* **2019**, *1*, 185–197.
1154. Concepts in the design and engineering of single-molecule electronic devices (N. Xiu, J. Guan, C. Zhou, X. Chen, C. Gu, Y. Li, M.A. Ratner, A. Nitzan, J.F. Stoddart, X. Guo), *Nat. Rev. Phys.* **2019**, *1*, 211–230. [12]
1155. Discrete dimers of redox-active and fluorescent perylene diimide-based rigid isosceles triangles in the solid state (S.K.M. Nalluri, J. Zhou, T. Cheng, Z. Liu, M.T. Nguyen, T. Chen, H.A. Patel, M.D. Krzyaniak, W.A. Goddard III, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2019**, *141*, 1290–1303. [10]
1156. A dynamic tetracationic macrocycle exhibiting photoswitchable molecular encapsulation (H. Wu, Y. Chen, L. Zhang, O. Anamimoghadam, D. Shen, Z. Liu, K. Cai, C. Pezzato, C.L. Stern, Y. Liu, J.F. Stoddart), *J. Am. Chem. Soc.* **2019**, *141*, 1280–1289. [7]
1157. Interpenetration isomerism of triptycene-based hydrogen-bonded organic frameworks (P. Li, P. Li, M.R. Ryder, Z. Liu, C.L. Stern, O.K. Farha, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2019**, *58*, 1664–1669. [12]
1158. Reticular access to highly porous acs-MOFs with rigid trigonal prismatic linkers for water sorption (Z. Chen, P. Li, X. Zhang, P. Li, M.C. Wasson, T. Islamoglu, J.F. Stoddart, O.K. Farha), *J. Am. Chem. Soc.* **2019**, *141*, 2900–2905. [10]
1159. Choosing sides: Unusual ultrafast charge transfer pathways in an asymmetric electron-accepting cyclophane that binds an electron donor (J. Zhou, Y. Wu, I. Roy, A. Samanta, J.F. Stoddart, R.M. Young, M.R. Wasielewski), *Chem. Sci.* **2019**, *10*, 4282–4292. [2]
1160. In situ photoconversion of multicolor luminescence and pure white emission based on carbon dot-supported supramolecular assembly (H. Wu, Y. Chen, X. Dai, P. Li, J.F. Stoddart, Y. Liu), *J. Am. Chem. Soc.* **2019**, *141*, 6583–6591. [11]
1161. Guest recognition enhanced by lateral interactions (T. Jiao, K. Cai, Z. Liu, C. Cheng, Y. Feng, C.L. Stern, J.F. Stoddart, H. Li), *Chem. Sci.* **2019**, *10*, 5114–5123. [1]

1162. Inversion of dispersion: Colloidal stability of calixarene-modified metal–organic framework nanoparticles in nonpolar media (U. Jeong, N.A. Dogan, M. Garai, T.S. Nguyen, J.F. Stoddart C.T. Yavuz), *J. Am. Chem. Soc.* **2019**, *141*, 12182–12186. [1]
1163. Ligand-directed reticular synthesis of catalytically active missing zirconium-based metal–organic frameworks (Z. Chen, P. Li, X. Wang, K. Otake, X. Zhang, L. Robison, A. Atilgan, T. Islamoglu, M.G. Hall, G.W. Peterson, J.F. Stoddart, O.K. Farha), *J. Am. Chem. Soc.* **2019**, *141*, 12229–12235.
1164. A supramolecular approach for modulated photoprotection, lysosomal delivery, and photodynamic activity of a photosensitizer (I. Roy, S. Bobbala, R.M. Young, Y. Beldjoudi, M.T. Nguyen, M.M. Cetin, J.A. Cooper, S. Allen, O. Anamimoghadam, E.A. Scott, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2019**, *141*, 12296–12304.
1165. Assembly of a porous supramolecular polyknot from rigid trigonal prismatic building blocks (P. Li, Z. Chen, M.R. Ryder, C.L. Stern, Q.-H. Guo, X. Wang, O.K. Farha, J.F. Stoddart), *J. Am. Chem. Soc.* **2019**, *141*, 12998–13002.
1166. Cyclotris(paraquat-*p*-phenylenes) (O. Anamimoghadam, J.A. Cooper, M.T. Nguyen, Q.-H. Guo, L. Mosca, I. Roy, J. Sun, C.L. Stern, L. Redfern, O.K. Farha, J.F. Stoddart), *Angew. Chem. Int. Ed.* **2019**, *58*, 13778–13783.
1167. A hierarchical nanoporous diamandoid superstructure (Q.-H. Guo, Z. Liu, D. Shen, Y. Xu, M.R. Ryder, H. Chen, C.L. Stern, C.D. Malliakas, X. Zhang, L. Zhang, Y. Qiu, Y. Shi, R.Q. Snurr, D. Philp, O.K. Farha, J.F. Stoddart), *Chem* **2019**, *5*, 2353–2364.
1168. Artificial allomelanin nanoparticles (X. Zhou, N.C. McCallun, Z. Hu, W. Cao, K. Gnanasekaran, Y. Feng, J.F. Stoddart, Z. Wang, N.C. Gianneschi), *ACS Nano* **2019**, *13*, 10980–10990.
1169. Stabilizing the naphthalenediimide radical within a tetracationic cyclophane (T. Jiao, K. Cai, J.N. Nelson, Y. Jiao, Y. Qiu, G. Wu, J. Zhou, C. Cheng, D. Shen, Y. Feng, Z. Liu, M.R. Wasielewski, J.F. Stoddart, H. Li), *J. Am. Chem. Soc.* **2019**, *141*, 16915–16922.
1170. Conductive 2D metal-organic framework for high-performance cathodes in aqueous rechargeable zinc batteries (K.W. Nam, S.S. Park, R. dos Reis, V.P. Dravid, H. Kim, C.A. Mirkin, J.F. Stoddart), *Nat. Commun.* **2019**, *10*, 4948.
1171. Supramolecular tessellations by a rigid naphthalene diimide triangle (Y. Beldjoudi, A. Narayanan, I. Roy, T.J. Pearson, M.M. Cetin, M.T. Nguyen, M.D. Krzyaniak, F.M. Alsubaie, M.R. Wasielewski, S.I. Stupp, J.F. Stoddart), *J. Am. Chem. Soc.* **2019**, *141*, 18308–18317.
1172. A molecular dual pump (Y. Qiu, L. Zhang, C. Pezzato, Y. Feng, W. Li, M.T. Nguyen, C. Cheng, D. Shen, Q.-H. Guo, Y. Shi, K. Cai, F.M. Alsubaie, R.D. Astumian, J.F. Stoddart), *J. Am. Chem. Soc.* **2019**, *141*, 17472–17476.
1173. A redox-switchable molecular zipper (M. Dumartin, M.C. Lipke, J.F. Stoddart), *J. Am. Chem. Soc.* **2019**, *141*, 18308–18317.
1174. Amphidynamic crystals key to artificial molecular machines (I. Roy, J.F. Stoddart), *Trends Chem.* **2019**, *2*, 627–629.
1175. Combining intra- and intermolecular charge transfer with polycationic cyclophanes to design 2D tessellations (M.M. Cetin, Y. Beldjoudi, I. Roy, O. Anamimoghadam, Y.J. Bae, R.M. Young, M.D. Krzyaniak, C.L. Stern, D. Philp, F.M. Alsubaie, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2019**, *141*, 18727–18739.
1176. Tuning radical interactions in trisradial triationic complexes by varying host-cavity sizes (K. Cai, Y. Shi, C. Cao, S. Vemuri, B. Cui, D. Shen, H. Wu, L. Zhang, Y. Qiu, H. Chen, Y. Jiao, C.L. Stern, F.M. Alsubaie, H. Xiao, J. Li, J.F. Stoddart), *Chem. Sci.* **2020**, *11*, 107–112.
1177. Integration of enzymes and photosensitizers in a hierarchical mesoporous metal–organic framework for light-driven CO₂ reduction (Y. Chen, P. Li, J. Zhou, C.T. Baru, L. Dordević, P. Li, X. Zhang, M.M. Cetin, J.F. Stoddart, S.I. Stupp, M.R. Wasielewski, O.K. Farha), *J. Am. Chem. Soc.* **2020**, *142*, 1768–1773.
1178. Organic counterion co-assembly strategy for the formation of gamma-cyclodextrin-containing hybrid frameworks (D. Shen, J.A. Cooper, P. Li, Q.-H. Guo, K. Cai, X. Wang, H. Wu, H. Chen, L. Zhang, Y. Jiao, Y.

- Qiu, C.L. Stern, Z. Liu, A. C.-H. Sue, Y.-W. Yang, F.M. Alsubaie, O.M. Farha, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 2042–2050.
1179. Redox-active phenanthrenequinone triangles in aqueous rechargeable batteries (K.W. Nam, H. Kim, Y. Beldjoudi, T. Kwon, D.J. Kim, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 2541–2548.
1180. XCage: A tricyclic octacationic receptor for perylene diimide with picomolar affinity in water (W. Liu, S. Bobbala, C.L. Stern, J.E. Hornick, Y. Liu, A.E. Enciso, E.A. Scott, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 3165–3173.
1181. Giant conductance enhancement of intramolecular circuits through interchannel gating (H. Chen, H. Zheng, C. Hu, K. Cai, Y. Jiao, L. Zhang, F. Jiang, I. Roy, Y. Qiu, D. Shen, Y. Feng, F.M. Alsubaie, H. Guo, W. Hong, J.F. Stoddart), *Matter* **2020**, *2*, 378–189. For a Preview see: Molecular engineering: A key route to improve the performance of molecular devices (X. Guo) *Matter* **2020**, *2*, 284–285.
1182. TetrazineBox: A structurally transformative toolbox (Q.-H. Guo, J. Zhou, H. Mao, Y. Qiu, M.T. Nguyen, Y. Feng, J. Liang, D. Shen, P. Li, Z. Liu, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 5419–5428.
1183. Single-crystal polycationic polymers obtained by single-crystal-to-single-crystal photopolymerization (Q.-H. Guo, M. Jia, Z. Liu, Y. Qiu, H. Chen, D. Shen, X. Zhang, Q. Tu, M.R. Ryder, H. Chen, P. Li, Y. Xu, P. Li, Z. Chen, G.S. Shekhawat, V.P. Dravid, R.Q. Snurr, D. Philp, A.C.-H. Sue, O.K. Farha, M. Rolandi, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 6180–6187.
1184. Highly stable organic bisradicals protected by mechanical bonds (K. Cai, H. Mao, W.-G. Liu, Y. Qiu, Y. Shi, L. Zhang, D. Shen, H. Chen, Y. Jiao, H. Wu, Z. Liu, Y. Feng, C.L. Stern, M.R. Wasielewski, W.A. Goddard III, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 7190–7197.
1185. Stitching up the belt[*n*]arenes (Y. Qiu, H. Chen, Y. Feng, M.E. Schott, J.F. Stoddart), *Chem* **2020**, *6*, 826–829.
1186. Synthesis, structures, photophysical properties, and catalytic characteristics of 2,9-dimesityl-1,10-phenanthroline (dmesp) transition metal complexes (M.M. Cetin, S. Shafiei-Haghighi, J. Chen, S. Zhang, A.C. Miller, D.K. Unruh, D.J. Casadonte, Jr., T.L. Lohr, T.J. Marks, M.F. Mayer, J.F. Stoddart, M. Findlater), *J. Polym. Sci.* **2020**, *58*, 1130–1143.
1187. Balancing volumetric and gravimetric uptake in highly porous materials for clean energy (Z. Chen, P. Li, R. Anderson, X. Wang, X. Zhang, L. Robison, L.R. Redfern, S. Moribe, T. Islamoglu, D.A. Gómez-Gualdrón, T. Yildirim, J.F. Stoddart, O.K. Farha), *Science* **2020**, *368*, 297–303.
1188. Mechanical-bond-induced exciplex fluorescence in an anthracene-based homo[2]catenane (A. Garci, Y. Beldjoudi, M.S. Kodaimati, J.E. Hornick, M.T. Nguyen, M.M. Cetin, C.L. Stern, I. Roy, E.A. Weiss, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 7956–7967.
1189. Non-equilibrium kinetics and trajectory thermodynamics of synthetic molecular pumps (R.D. Astumian, C. Pezzato, Y. Feng, Y. Qiu, P.R. McGonigal, C. Cheng, J.F. Stoddart), *Mater. Chem.* **2020**, *4*, 1304–1314.
1190. Cyclophane-sustained ultrastable porphyrins (W. Liu, C. Lin, J.A. Weber, C.L. Stern, R.M. Young, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 8938–8945.
1191. Suit[4]ane (W. Liu, C.L. Stern, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 10273–10278.
1192. Molecular-pump-enabled synthesis of a daisy chain polymer (K. Cai, Y. Shi, G.-W. Zhuang, L. Zhang, Y. Qiu, D. Shen, H. Chen, Y. Jiao, H. Wu, C. Cheng, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 10308–10313.
1193. A precise polyrotaxane synthesizer (Y. Qiu, B. Song, C. Pezzato, D. Shen, W. Liu, L. Zhang, Y. Feng, Q.-H. Guo, K. Cai, W. Li, H. Chen, M.T. Nguyen, Y. Shi, C. Cheng, R.D. Astumian, X. Li, J.F. Stoddart), *Science* **2020**, *368*, 1247–1253.
1194. Electrochemical switching of a fluorescent molecular rotor embedded within a bistable rotaxane (Y. Wu, M. Frasconi, W.-G. Liu, R.M. Young, W.A. Goddard III, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 11835–11846.
1195. Precious metal recovery from electronic waste by a porous porphyrin polymer (Y. Hong, D. Thirion, S. Subramanian, M. Yoo, H. Choi, H.Y. Kim, J.F. Stoddart, C.T. Yavuz), *Proc. Natl. Acad. Sci. U. S. A.* **2020**, *117*, 16174–16180.

1196. Radical-enriched artificial melanin (W. Cao, A.J. Mantanona, H. Mao, N.C. McCallum, Y. Jiao, C. Battistella, V. Caponetti, N. Zhang, M.P. Thompson, M. Montalti, J.F. Stoddart, M.R. Wasielewski, J.D. Rinehart, N.C. Gianneschi), *Chem. Mater.* **2020**, *32*, 5759–5767.
1197. Mixed-flow design for microfluidic printing of two-phase polymer semiconductor systems (G. Wang, L.-W. Feng, W. Huang, S. Mukherjee, Y. Chen, D. Shen, B. Wang, J. Strzalka, D. Zheng, F.S. Melkonyan, J. Yan, J.F. Stoddart, S. Fabiano, D.M. DeLongchamp, M. Zhu, A. Facchetti, T.J. Marks), *Proc. Natl. Acad. Sci. U.S.A.* **2020**, *117*, 17551–17557.
1198. Reticular exploration of uranium-based metal–organic frameworks with hexacarboxylate building units (Z. Chen, P. Li, X. Zhang, M.R. Mian, X. Wang, P. Li, Z. Liu, M. O’Keeffe, J.F. Stoddart, O.K. Farha), *Nano Res.* **2020**, *13*, 298–314.
1199. Pumps through the ages (Y. Qiu, Y. Feng, Q.-H. Guo, R.D. Astumian, J.F. Stoddart), *Chem* **2020**, *6*, 1954–1979.
1200. A diverse view of science to catalyze change (C.A. Urbina-Blanco, S.Z. Jilani, I.R. Speight, M.J. Bojdys, T. Friščić, J.F. Stoddart, T.L. Nelson, J. Mack, R.A.S. Robinson, E.A. Waddell, J.L. Lutkenhaus, M. Godfrey, M.I. Abboud, S.O. Aderinto, D. Aderohunmu, L. Bibič, J. Borges, V.M. Dong, L. Ferrins, F.M. Fung, T. John, F.P.L. Lim, S.L. Masters, D. Mambwe, P. Thordarson, M.-M. Titirici, G.D. Tormet-González, M.M. Unterlass, A. Wadle, V.W.-W. Yam, Y.-W. Yang), *Nat. Chem.* **2020**, *12*, 773–776; *J. Am. Chem. Soc.* **2020**, *142*, 14393–14396; *Angew. Chem. Int. Ed.* **2020**, *59*, 18306–18310; *Chem.Sci.* **2020**, *11*, 9043–9047; *Can. J. Chem.* **2020**, *98*, xx–yy; *Croat. Chem. Acta* **2020**, *93*, 77–81.
1201. Supramolecular porous organic nanocomposites for heterogenesis photocatalysis of a sulfur mustard simulant (Y. Beldjoudi, A. Atilgan, J.A. Weber, I. Roy, R.M. Young, J. Yu, P. Deria, A.E. Enciso, M.R. Wasielewski, J.T. Hupp, J.F. Stoddart), *Adv. Mater.* **2020**, *32*, 2001592.
1202. High-efficiency gold recovery using cucurbit[6]uril (H. Wu, L.O. Jones, Y. Wang, D. Shen, Z. Liu, L. Zhang, K. Cai, Y. Jiao, C.L. Stern, G.C. Schatz, J.F. Stoddart), *ACS Appl. Mater. Interfaces* **2020**, *12*, 38768–38777.
1203. Artificial molecular pump operating in response to electricity and light (Q.-H. Guo, Y. Qiu, X. Kuang, J. Liang, Y. Feng, L. Zhang, Y. Jiao, D. Shen, R.D. Astumian, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 14443–14449.
1204. Dawning of the age of molecular nanotopology (J.F. Stoddart), *Nano Lett.* **2020**, *20*, 5597–5600.
1205. Two-photon excited deep-red and near-infrared emissive organic co-crystals (Y. Wang, H. Wu, P. Li, S. Chen, L.O. Jones, M.A. Mosquera, L. Zhang, K. Cai, H. Chen, X.-Y. Chen, C.L. Stern, M.R. Wasielewski, M.A. Ratner, G.C. Schatz, J.F. Stoddart) *Nat. Commun.* **2020**, *11*, 4633.
1206. Host–guest complexation-mediated supramolecular photon upconversion (I. Roy, A. Garci, Y. Beldjoudi, R.M. Young, D.J. Pe, M.T. Nguyen, P.J. Das, M.R. Wasielewski, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 16600–16609.
1207. Ring-in-ring(s) complexes exhibiting tunable multicolor photoluminescence (H. Wu, Y. Wang, L.O. Jones, W. Liu, B. Song, Y. Cui, K. Cai, L. Zhang, D. Shen, X.-Y. Chen, Y. Jiao, C.L. Stern, X. Li, G.C. Schatz, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 16849–16860.
1208. Hydrogen-bonded organic frameworks: A rising class of porous molecular materials (P. Li, M.R. Ryder, J.F. Stoddart), *Acc. Mater. Res.* **2020**, *1*, 77–87.
1209. Post-synthetically elaborated BODIPY-based porous organic polymers (POPs) for the photochemical detoxification of a sulfur mustard simulant (A. Atilgan, M.M. Cetin, J. Yu, Y. Beldjoudi, J. Liu, C.L. Stern, F.M. Cetin, T. Islamoglu, O.M. Farha, P. Deria, J.F. Stoddart, J.T. Hupp), *J. Am. Chem. Soc.* **2020**, *142*, 18554–18564.
1210. Suit[3]ane (X.-Y. Chen, D. Shen, K. Cai, Y. Jiao, H. Wu, B. Song, L. Zhang, Y. Tan, Y. Wang, Y. Feng, C.L. Stern, J.F. Stoddart), *J. Am. Chem. Soc.* **2020**, *142*, 20152–20160.
1211. Viologen tweezers to probe the force of individual donor–acceptor π -interactions (D. Sluysmans, L. Zhang, X. Li, A. Garci, J.F. Stoddart, A.-S. Duwez), *J. Am. Chem. Soc.* **2020**, *142*, 21153–21159.

[Number of citations according to ISI Web of Science as of 2 December 2019]

BOOKS

1. Stereochemistry of Carbohydrates (J.F. Stoddart), Wiley, New York, 1971, 249 pages.
2. The Nature of the Mechanical Bond : From Molecules to Machines (C.J. Bruns, J.F. Stoddart), Wiley, Oxford, November 2016, 761 pages.

EDITED BOOKS

1. Editing of Barton and Ollis's Comprehensive Organic Chemistry, Vol. 1, Pergamon Press, Oxford, 1979, 1227 pp.
2. Editing of RSC Monographs in Supramolecular Chemistry, Calixarenes (C.D. Gutsche), Cambridge, 1989, 223 pp.
3. Editing of RSC Monographs in Supramolecular Chemistry, Cyclophanes (F. Diederich), Cambridge, 1991, 313 pp.
4. Editing of RSC Monographs in Supramolecular Chemistry, Crown Ethers and Cryptands (G.W. Gokel), Cambridge, 1991, 190 pp.
5. Editing of RSC Monographs in Supramolecular Chemistry, Container Molecules and their Guests (D.J. Cram, J.M. Cram), 1994, 223 pp.
6. Editing of RSC Monographs in Supramolecular Chemistry, Membranes and Molecular Assemblies: The Synkinetic Approach (J.-H. Fuhrhop, J. Köning), 1994, 227 pp.
7. Editing of RSC Monographs in Supramolecular Chemistry, Self-Assembly in Supramolecular Systems (L.F. Lindoy, I.M. Atkinson), 2000, 223 pp.
8. Editing with F. Vögtle and M. Shibasaki: Stimulating Concepts in Chemistry, Wiley-VCH, 2000, 396 pp.

ISSUED US PATENTS

1. Metal Complexes (H.M. Colquhoun, D.F. Lewis, J.F. Stoddart).
Publication date: **1987**-05-19. Publication number: 0051946.
2. Solubilized platinum compounds (J.F. Stoddart, D.R. Alston).
Publication date: **1987**-09-29. Publication number: 4696918.
3. Cyclodextrin catenane compounds capable of forming inclusion complexes (C.P. Moore, T.J. Wear, J.F. Stoddart, D. Armspach).
Publication date: **1995**-08-01. Publication number: 5438133.
4. Preparation of [2]pseudorotaxane derivatives as analytical reagents (N.D. Tinker, J.F. Stoddart, O.A. Matthews).
Publication date: **1996**-12-12. Publication number: WO 9639402.
5. Electrically addressable volatile non-volatile molecular-based switching devices (J.R. Heath, C.P. Collier, G. Mattersteig, F.M. Raymo, J.F. Stoddart, E. Wong).
Publication date: **2001**-03-06. Publication number: 6198655.
6. Noncovalent functionalization of nanotubes (J.F. Stoddart, A. Star).
Publication date: **2005**-02-24. Publication number: 0043503.
7. Room temperature deposition of nanotube transistor networks (G. Gruner, J.F. Stoddart, K.S. Chichak).
Publication date: **2005**-12-22. Publication number: WO 2005120205.
8. Nano-devices having resealable seals for controlled release of molecules (J.I. Zink, J. Lu, F. Tamanoi, A. Nel, S. Angelos, J.F. Stoddart, Q. Chen, T. Xia, K. Patel, W. Dichtel).
Publication date: **2010**-12-09. Publication number: 0310465.
9. Chemical framework compositions and methods of use (O.M. Yaghi, Q. Li, O. Miljanić, W. Zhang, J.F. Stoddart).
Publication date: **2011**-02-18. Publication number: 046463.

10. Nanoporous carbohydrate frameworks and the sequestration and detection of molecules using the same (J.J. Gassensmith, R.A. Smaldone, R.S. Forgan, J.F. Stoddart).
Issue date: 2015-07-21. Patent number: 9,085,460.
11. Crystalline bipyridinium radical complexes and uses thereof (J.F. Stoddart, A.C. Fahrenbach, J.C. Barnes, S. Sampath, A.N. Basuray).
Issue date: 2015-09-01. Patent number: 9,120,799.
12. Tetracationic Cyclophanes and Their Use in the Sequestration of Polyaromatic Hydrocarbons by Way of Complexation (J.C. Barnes, A.N. Basuray, A.C. Fahrenbach, H. Li, S. Sampath, J.F. Stoddart)
Issue date: 2016-03-22. Patent number 9,290,495
13. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. J.F. Stoddart)
Issue date: 2016-07-26. Patent number 9,399,803
14. Supramolecular networks with electron transfer in two dimensions (A. Narayanan, A. Shveyd, J.F. Stoddart, S. Stupp, C.H. Sue, A. Tayi)
Issue date: 2016-09-13. Patent number 9,443,636
15. Modular supramolecular approach for co-crystallization of donors and acceptors into ordered networks (A. Narayanan, A. Shveyd, J.F. Stoddart, S. Stupp, C. H. Sue, A. Tayi)
Issue date: 2016-09-20. Patent number 9,449,731
16. Redox active triangular organic materials (M. Frasconi, Z. Liu, S. Schneebeli, J.F. Stoddart)
Issue date: 2017-01-17. Patent number 9,546,169
17. A homochiral metal-organic framework with enantiopure pillar[5]arene active domains (J.F. Stoddart, N.L. Strutt)
Issue date: 2017-11-14. Patent number 9,815,764
18. ExCage: Synthesis of viologen-like pyridinium-based cages for the selective capture of polycyclic aromatic hydrocarbons (J. Barnes, E. Dale, M. Juricek, J.F. Stoddart, N. Vermeulen)
Issue date: 2017-11-28. Patent number 9,828,259
19. Methods of making diazaperopyrenium dications and uses thereof (A.N. Basuray, K. Hartlieb, H.P. Jacquot, S. Sampath, J.F. Stoddart)
Issue date: 2017-11-28. Patent number 9,828,371
20. Supramolecular networks with electron transfer in two dimensions (A. Narayanan, A. Shveyd, J.F. Stoddart, S. Stupp, C.H. Sue, A. Tayi)
Issue date: 2018-06-12. Patent number 9,997,271
21. Modular supramolecular approach for co-crystallization of donors and acceptors into ordered networks (A. Narayanan, A. Shveyd, J.F. Stoddart, S. Stupp, C.H. Sue, A. Tayi)
Issue date: 2018-06-12. Patent number 9,997,272
22. Nanoporous carbohydrate frameworks and the sequestration and detection of molecules using the same (R.S. Forgan, J.J. Gassensmith, R.A. Smaldone, J.F. Stoddart)
Issue date: 2018-11-13. Patent number 10,125,016
23. Electrochemical detection of carbon dioxide using a carbohydrate based coordination polymer (O. Farha, J. Gassensmith, N. Jeong, J.F. Stoddart)
Issue date: 2019-03-12. Patent number 10,228,343
24. Carbohydrate-mediated purification of petrochemicals (K. Hartlieb, J. Holcroft, J. Stoddart)
Issue date: 2019-03-26. Patent number 10,239,044
25. Viologen-based rotaxanes (M. Frasconi, J.F. Stoddart, J. Sun, Y. Wang)
Issue date: 2019-04-16. Patent number 10,259,913

PROVISIONAL PATENT APPLICATIONS

- Serial No.:** 61/314,889
Inventors: J. F. Stoddart, A. M. Z. Slawin, R. S. Forgan, R. A. Smaldone
Filing Date: 2010-03-17
Title: Nanoporous carbohydrate frameworks
- Serial No.:** 61/351,704
Inventors: J. F. Stoddart, J. J. Gassensmith, R. S. Forgan, R. A. Smaldone
Filing Date: 2010-06-04
Title: Sequestration and detection of carbon dioxide by a metal organic framework
- Serial No.:** 61/314,897
Inventors: J. F. Stoddart, C.-H. Sue, S. Basu
Filing Date: 201-03-17
Title: A novel purification of CBPQT⁴⁺ macrocycle
- Serial No.:** 61/488,605
Inventors: S. I. Stupp, J. F. Stoddart, A. K. Shveyd, A. S. Tayi, C.-H. Sue
Filing Date: 2011-05-20
Title: Lock-arm supramolecular ordering
- Serial No.:** 61/498,262
Inventors: S. I. Stupp, J. F. Stoddart, A. K. Shveyd, A. S. Tayi, C.-H. Sue
Filing Date: 2011-06-17
Title: Visible pleochroism in a supramolecular material
- Serial No.:** 61/498,277
Inventors: S. I. Stupp, J. F. Stoddart, A. K. Shveyd, A. S. Tayi, C.-H. Sue
Filing Date: 2011-06-17
Title: Supramolecular design for ferroelectric charge crystals
- Serial No.:** 61/537,852
Inventors: J. F. Stoddart, A. C. Fahrenbach, J. C. Barnes, S. Sampath, A. N. Basuray, H. Li
Filing Date: 2011-09-22
Title: Crystalline bipyridinium radical complexes and uses thereof
- Serial No.:** 61/550,748
Inventors: J. F. Stoddart, S. Grunder, A. C. Whalley, C. Valente
Filing Date: 2011-10-24
Title: Molecular gauge blocks for building on the nanoscale
- Serial No.:** 61/740,958
Inventors: J. F. Stoddart, J. C. Barnes, M. Juriček
Filing Date: 2012-12-21
Title: Tetracationic cyclophanes and their use in the sequestration of polyaromatic hydrocarbons by way of complexation
- Serial No.:** 61/814,066
Inventors: J. F. Stoddart, Z. Liu, M. Frasconi, D. Cao
Filing Date: 2013-04-19
Title: Compounds and methods to isolate gold
- Serial No.:** 61/883,352
Inventors: J. F. Stoddart, S. Sampath, A. N. Basuray, K. J. Hartlieb, H.-P. Jaquot de Rouville
Filing Date: 2013-09-27
Title: Methods of making diazaperopyrenium dications and uses thereof
- Serial No.:** 62/008,671
Inventors: K. Hartlieb, J. Holcroft, J.F. Stoddart
Filing Date: 2014-06-06
Title: Carbohydrate-mediated purification of petrochemicals

13. **Serial No.:** 62/045,517
Inventors: O. K. Farha, J. J. Gassensmith, J. F. Stoddart, N. C. Jeong
Filing Date: 2014-09-03
Title: Electrochemical detection of carbon dioxide using a carbohydrate based coordination polymer
14. **Serial No.:** 62/045,531
Inventors: J. F. Stoddart, M. Frasconi, S. T. Schneebeli, Z. Liu
Filing Date: 2014-09-03
Title: Redox active triangular organic materials
15. **Serial No.:** 62/045,511
Inventors: J. F. Stoddart, J. C. Barnes, M. Juriček, E. J. Dale, N. A. Vermeulen
Filing Date: 2014-09-03
Title: ExCage: Synthesis of viologen-like pyridinium-based cages for the selective capture of polycyclic aromatic hydrocarbons
16. **Serial No.:** 62/045,514
Inventors: J. F. Stoddart, N. L. Strutt
Disclosure Date: 2014-09-03
Title: A homochiral metal-organic framework with enantiopure pillar[5] arene active domains
17. **Serial No.:** 62/057,059
Inventors: J. F. Stoddart, X. Hou, C. Ke
Filing Date: 2014-09-29
Title: Supramolecular encrypted fluorescent security ink compositions
18. **Serial No.:** 62/057,102
Inventors: J. F. Stoddart, X. Hou, C. Ke, R. B. Pettman
Filing Date: 2014-09-29
Title: Supramolecular encrypted fluorescent security ink compositions
19. **Serial No.:** 62/135,339
Inventors: J. F. Stoddart, D. Chen, A.-J. Avestro, J. Sun, Z. B. Erno
Filing Date: 2015-03-19
Title: Rigid naphthalenediimide triangle structures
20. **Serial No.:** 62/255,490
Inventors: D. Ferris, K. Hartlieb, J. Holcroft, J.F. Stoddart
Filing Date: 2015-11-15
Title: Uptake of pharmaceuticals within cyclodextrin-based porous materials
21. **Serial No.:** 62/278,200
Inventors: Z. Liu, J.F. Stoddart
Filing Date: 2016-01-13
Title: Supramolecular assembly of rigid macrocycles through cooperative hydrogen bond interactions
22. **Serial No.:** 62/288,701
Inventors: M. Frasconi, J.F. Stoddart, J. Sun, Y. Wang
Filing Date: 2016-01-29
Title: Viologen-based rotaxanes
23. **Serial No.:** 62/308,998
Inventors: Z. Liu, S. Nalluri, J.F. Stoddart
Filing Date: 2016-03-16
Title: Rigid chiral redox-active isosceles triangles
24. **Serial No.:** 62/321,290
Inventors: V. Dravid, D. Ferris, K.A. Hujsak, M. Owczarek, A. Prokofjevs, J.F. Stoddart
Filing Date: 2016-04-12
Title: Flexible piezoelectric and antiferroelectric haloimidazole crystals
25. **Serial No.:** 62/382,994
Inventors: V. Dravid, D. Ferris, D. Hong, K.A. Hujsak, M. Owczarek, A. Prokofjevs, J.F. Stoddart
Filing Date: 2016-09-02

Title: Flexible piezoelectric and antiferroelectric haloimidazole crystals

26. **Serial No.:** 62/416,334
Inventors: D. Ferris, K. Hartlieb, J. Holcroft, J.F. Stoddart
Filing Date: 2016-11-02
Title: Loading and bioavailability of ibuprofen/CD-MOF formulations
27. **Serial No.:** 62/531,115
Inventors: Z. Liu, J.F. Stoddart, J. Sun
Filing Date: 2017-07-11
Title: Mechanically interlocked air-stable radicals
28. **Serial No.:** 62/535,579
Inventors: Z. Liu, S. Nalluri, H. Patel, J.F. Stoddart
Filing Date: 2017-07-21
Title: Lithiated cyclodextrin metal organic frameworks and methods of making and using the same
29. **Serial No.:** 62/580,860
Inventors: H. Patel, J.F. Stoddart
Filing Date: 2017-11-02
Title: Troger's base-linked poly(crown ether)s
30. **Serial No.:** 62/619,561
Inventors: S. Nalluri, J.F. Stoddart
Filing Date: 2018-01-19
Title: Rigid chiral photoluminescent isosceles triangular materials
31. **Serial No.:** 62/653,301
Inventors: M. Nguyen, J.F. Stoddart
Filing Date: 2018-04-05
Title: Densely charged catenanes
32. **Serial No.:** 62/658,048
Inventors: I. Roy, J.F. Stoddart
Filing Date: 2018-04-16
Title: Cyclophanes for live-cell imaging
33. **Serial No.:** 62/680,352
Inventors: Z. Liu, J.F. Stoddart
Filing Date: 2018-06-04
Title: Mixed-valence crystal superstructures
34. **Serial No.:** 62/691,923
Inventors: M. Nguyen, J.F. Stoddart
Filing Date: 2018-06-29
Title: Densely Charged Catenanes
35. **Serial No.:** 62/700,614
Inventors: J. Choi, D.J. Kim, J.F. Stoddart, D.-J. Yoo
Filing Date: 2018-07-19
Title: Rechargeable Aluminum Organic Batteries
36. **Serial No.:** 62/799,229
Inventors: I. Roy, J.F. Stoddart
Filing Date: 2019-01-31
Title: Supramolecular Photoprotection of a Photosensitizer for Safe Lysosomal Delivery and Anticancer Therapy

PENDING US PATENT APPLICATIONS

1. **Serial No.:** 13/658,973
Inventors: J. F. Stoddart, S. Grunder, A. C. Whalley, C. Valente
Filing Date: 2012-10-24
Title: Molecular gauge blocks for building on the nanoscale
2. **Serial No.:** 14/733,875

- Inventors:** J. F. Stoddart, K. J. Hartlieb, J. M. Holcroft
Filing Date: 2015-06-08
Title: Carbohydrate-mediated purification of petrochemicals
3. **Serial No.:** 14/867,826
Inventors: X. Hou, C. Ke, J.F. Stoddart
Filing Date: 2015-09-28
Title: Supramolecular fluorescent dyes
 4. **Serial No.:** 14/867,953
Inventors: X. Hou, C. Ke, J.F. Stoddart
Filing Date: 2015-09-28
Title: Supramolecular encrypted fluorescent security ink compositions
 5. **Serial No.:** 15/074,161
Inventors: A.-J. Avestro, D. Chen, Z. Erno, J.F. Stoddart, J. Sun
Filing Date: 2016-03-18
Title: Rigid naphthalenediimide triangle structures
 6. **Serial No.:** 15/218,280
Inventors: D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart
Filing Date: 2016-07-25
Title: Compounds and methods to isolate gold
 7. **Serial No.:** 15/350,975
Inventors: D. Ferris, K. Hartlieb, J. Holcroft, J.F. Stoddart
Filing Date: 2016-11-14
Title: Uptake of pharmaceuticals within cyclodextrin-based porous materials
 8. **Serial No.:** 16/032,212
Inventors: Z. Liu, J.F. Stoddart, J. Sun
Filing Date: 2018-07-11
Title: Mechanically interlocked air-stable radicals
 9. **Serial No.:** 16/069,940
Inventors: Z. Liu, J.F. Stoddart
Filing Date: 2018-07-13
Title: Supramolecular assembly of rigid macrocycles through cooperative hydrogen bond interactions
 10. **Serial No.:** 16/085,436
Inventors: Z. Liu, S. Nalluri, J.F. Stoddart
Filing Date: 2018-09-14
Title: Rigid chiral redox-active isocenes triangular materials
 11. **Serial No.:** 16/093,256
Inventors: V. Dravid, D. Ferris, D. Hong, K.A. Hujsak, M. Owczarek, A. Prokofjevs, J.F. Stoddart
Filing Date: 2018-10-12
Title: Flexible piezoelectric and antiferroelectric haloimidazole crystals
 12. **Serial No.:** 16/269,311
Inventors: X. Hou, C. Ke, R. Pettman, J.F. Stoddart
Filing Date: 2019-02-06
Title: Supramolecular encrypted fluorescent security ink compositions

PCT APPLICATIONS

1. **Serial No.:** PCT/US2011/028866
Inventors: J. J. Gassensmith, R. A. Smaldone, R. S. Forgan, J. F. Stoddart
Filing Date: 2011-03-17
Title: Nanoporous carbohydrate frameworks and the sequestration and detection of molecules using the same
2. **Serial No.:** PCT/US2012/038896
Inventors: S. I. Stupp, J. F. Stoddart, A. K. Shveyd, A. S. Tayi, C.-H. Sue
Filing Date: 2012-05-21
Title: Modular supramolecular approach for co-crystallization of donors and acceptors into ordered networks

3. **Serial No.:** PCT/US2012/042978
Inventors: S. I. Stupp, J. F. Stoddart, A. K. Shveyd, A. S. Tayi, C.-H. Sue
Filing Date: 2012-06-18
Title: Visible pleochroism in a supramolecular material
4. **Serial No.:** PCT/US2013/077144
Inventors: J. F. Stoddart, J. C. Barnes, M. Juriček
Filing Date: 2013-12-20
Title: Tetracationic cyclophanes and their use in the sequestration of polyaromatic hydrocarbons by way of complexation
5. **Serial No.:** PCT/US2014/034697
Inventors: J. F. Stoddart, Z. Liu, M. Frasconi, D. Cao
Filing Date: 2014-04-18
Title: Compounds and methods to isolate gold
6. **Serial No.:** PCT/US2015/034754
Inventors: J. F. Stoddart, K. J. Hartlieb, J. M. Holcroft
Filing Date: 2015-06-08
Title: Carbohydrate-mediated purification of petrochemicals
7. **Serial No.:** PCT/US2015/052670
Inventors: X. Hou, C. Ke, J.F. Stoddart
Filing Date: 2015-09-28
Title: Supramolecular fluorescent dyes
8. **Serial No.:** PCT/US2015/052694
Inventors: X. Hou, C. Ke, R. Pettman, J.F. Stoddart
Filing Date: 2015-09-28
Title: Supramolecular encrypted fluorescent security ink compositions
9. **Serial No.:** PCT/US2016/023111
Inventors: A.-J. Avestro, D. Chen, Z. Erno, J.F. Stoddart, J. Sun
Filing Date: 2016-03-16
Title: Rigid naphthalenediimide triangle structures
10. **Serial No.:** PCT/US2016/061963
Inventors: D. Ferris, K. Hartlieb, J. Holcroft, J.F. Stoddart
Filing Date: 2016-11-15
Title: Uptake of pharmaceuticals within cyclodextrin-based porous materials
11. **Serial No.:** PCT/US2017/013301
Inventors: Z. Liu, J.F. Stoddart
Filing Date: 2017-01-13
Title: Supramolecular assembly of rigid macrocycles through cooperative hydrogen bond interactions
12. **Serial No.:** PCT/US2017/015299
Inventors: M. Frasconi, J.F. Stoddart, J. Sun, Y. Wang
Filing Date: 2017-01-27
Title: Viologen-based rotaxanes
13. **Serial No.:** PCT/US2017/022668
Inventors: Z. Liu, S. Nalluri, J.F. Stoddart
Filing Date: 2017-03-16
Title: Rigid chiral redox-active isocenes triangular materials
14. **Serial No.:** PCT/US2017/027170
Inventors: V. Dravid, D. Ferris, D. Hong, K.A. Hujsak, M. Owczarek, A. Prokofjevs, J.F. Stoddart
Filing Date: 2017-04-12
Title: Flexible piezoelectric and antiferroelectric haloimidazole crystals
15. **Serial No.:** PCT/US2018/041551

Inventors: Z. Liu, J.F. Stoddart, J. Sun
Filing Date: 2018-07-11
Title: Mechanically interlocked air-stable radicals

16. **Serial No.:** PCT/US2018/043217
Inventors: Z. Liu, S. Nalluri, H. Patel, J.F. Stoddart
Filing Date: 2018-07-23
Title: Lithiated cyclodextrin metal organic frameworks and methods of making and using the same
17. **Serial No.:** PCT/US2018/059046
Inventors: H. Patel, J.F. Stoddart
Filing Date: 2018-11-02
Title: Troger's base-linked poly(crown ether)s
18. **Serial No.:** PCT/US2019/014415
Inventors: S. Nalluri, J.F. Stoddart
Filing Date: 2019-01-21
Title: Rigid chiral photoluminescent isosceles triangular materials
19. **Serial No.:** PCT/US2019/026095
Inventors: M. Nguyen, J.F. Stoddart
Filing Date: 2019-04-05
Title: Densely charged catenanes
20. **Serial No.:** PCT/US2019/027713
Inventors: I. Roy, J.F. Stoddart
Filing Date: 2019-04-16
Title: Cyclophanes for live-cell imaging

ISSUED FOREIGN PATENTS

1. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart).
Issue date: 2018-10-11. Country: Australia Patent number: 2014253728.
2. Carbohydrate-Mediated Purification of Petrochemicals (K. Hartlieb, J. Holcroft, J.F. Stoddart).
Issue date: 2018-11-07. Country: EPO Patent number: EP 3077104.
3. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart).
Issue date: 2019-04-03. Country: Armenia Patent number: EUR 024977.
4. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart).
Issue date: 2019-04-03. Country: Azerbaijan Patent number: EUR 024977.
5. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart).
Issue date: 2019-04-03. Country: Belarus Patent number: EUR 024977.
6. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart).
Issue date: 2019-04-03. Country: Kazakhstan Patent number: EUR 024977.
7. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart).
Issue date: 2019-04-03. Country: Kyrgyzstan Patent number: EUR 024977.
8. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart).
Issue date: 2019-04-03. Country: Russia Patent number: EUR 024977.
9. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart).
Issue date: 2019-04-03. Country: Tajikistan Patent number: EUR 024977.
10. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart).
Issue date: 2019-04-03. Country: Turkmenistan Patent number: EUR 024977.
11. Compounds and Methods to Isolate Gold (D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart).
Issue date: 2019-04-03. Country: Eurasia Patent number: EUR 024977.

12. Tetracationic Cyclophanes and Their Use in the Sequestration of Polyaromatic Hydrocarbons by Way of Complexation (J. Barnes, M. Juricek, J.F. Stoddart).
Issue date: 2016-08-28. Country: Saudi Arabia Patent number: SA 5024.

PENDING FOREIGN PATENT APPLICATIONS

1. **Serial No.:** EP 13866011.3
Country: EPO
Inventors: J. F. Stoddart, J. C. Barnes, M. Juríček
Filing Date: 2015-06-24
Title: Tetracationic cyclophanes and their use in the sequestration of polyaromatic hydrocarbons by way of complexation
2. **Serial No.:** CA 2,909,203
Country: Canada
Inventors: D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart
Filing Date: 2015-10-08
Title: Compounds and Methods to Isolate Gold
3. **Serial No.:** PH 1-2015-502366
Country: Philippines
Inventors: D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart
Filing Date: 2015-10-02
Title: Compounds and Methods to Isolate Gold
4. **Serial No.:** PERU 002159-2015/DIN
Country: Peru
Inventors: D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart
Filing Date: 2015-10-15
Title: Compounds and Methods to Isolate Gold
5. **Serial No.:** CN 201480023847.X
Country: China
Inventors: D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart
Filing Date: 2015-10-27
Title: Compounds and Methods to Isolate Gold
6. **Serial No.:** EP 14785085.3
Country: EPO
Inventors: D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart
Filing Date: 2015-11-04
Title: Compounds and Methods to Isolate Gold
7. **Serial No.:** UZ IAP20150425
Country: Uzbekistan
Inventors: D. Cao, M. Frasconi, Z. Liu, J.F. Stoddart
Filing Date: 2015-11-04
Title: Compounds and Methods to Isolate Gold
8. **Serial No.:** CN 201780025678.7
Country: China
Inventors: Z. Liu, S. Nalluri, J.F. Stoddart
Filing Date: 2017-03-16
Title: Rigid Chiral Redox-Active Isosceles Triangular Materials
9. **Serial No.:** SA 517382329
Country: Saudi Arabia
Inventors: A.-J. Avestro, D. Chen, Z. Erno, J.F. Stoddart, J. Sun
Filing Date: 2017-09-17
Title: Rigid Naphthalenediimide Triangle Structures
10. **Serial No.:** ARAB EMIRATES P60011
Country: Arab Emirates

- Inventors:** A.-J. Avestro, D. Chen, Z. Erno, J.F. Stoddart, J. Sun
Filing Date: 2017-09-19
Title: Rigid Naphthalenediimide Triangle Structures
11. **Serial No.:** EP16765820.2
Country: EPO
Inventors: A.-J. Avestro, D. Chen, Z. Erno, J.F. Stoddart, J. Sun
Filing Date: 2017-10-27
Title: Rigid Naphthalenediimide Triangle Structures
 12. **Serial No.:** CN 201680028163.8
Country: China
Inventors: A.-J. Avestro, D. Chen, Z. Erno, J.F. Stoddart, J. Sun
Filing Date: 2017-11-15
Title: Rigid Naphthalenediimide Triangle Structures
 13. **Serial No.:** SA 518392119
Country: Saudi Arabia
Inventors: D. Ferris, K. Hartlieb, J. Holcroft, J.F. Stoddart
Filing Date: 2018-07-31
Title: Uptake of Pharmaceuticals within Cyclodextrin-based Porous Materials
 14. **Serial No.:** CN 201780015076.3
Country: China
Inventors: M. Frasconi, J.F. Stoddart, J. Sun, Y. Wang
Filing Date: 2018-09-04
Title: Viologen-Based Rotaxanes
 15. **Serial No.:** SA 518400208
Country: Saudi Arabia
Inventors: V. Dravid, D. Ferris, D. Hong, K.A. Hujsak, M. Owczarek, A. Prokofjevs, J.F. Stoddart
Filing Date: 2018-10-10
Title: Flexible Piezoelectric and Antiferroelectric Haloimidazole Crystals
 16. **Serial No.:** SA 518400208
Country: Saudi Arabia
Inventors: V. Dravid, D. Ferris, D. Hong, K.A. Hujsak, M. Owczarek, A. Prokofjevs, J.F. Stoddart
Filing Date: 2018-10-10
Title: Flexible Piezoelectric and Antiferroelectric Haloimidazole Crystals
 17. **Serial No.:** EP 17783042.9
Country: EPO
Inventors: V. Dravid, D. Ferris, D. Hong, K.A. Hujsak, M. Owczarek, A. Prokofjevs, J.F. Stoddart
Filing Date: 2018-11-12
Title: Flexible Piezoelectric and Antiferroelectric Haloimidazole Crystals
 18. **Serial No.:** CN 201780031574.7
Country: China
Inventors: V. Dravid, D. Ferris, D. Hong, K.A. Hujsak, M. Owczarek, A. Prokofjevs, J.F. Stoddart
Filing Date: 2018-11-22
Title: Flexible Piezoelectric and Antiferroelectric Haloimidazole Crystals
 19. **Serial No.:** TO BE PROVIDED
Country: China
Inventors: K. Hartlieb, J. Holcroft, J.F. Stoddart
Filing Date: TO BE PROVIDED
Title: Carbohydrate-Mediated Purification of Petrochemicals
 20. **Serial No.:** CN201680072938.1
Country: China
Inventors: D. Ferris, K. Hartlieb, J. Holcroft, J.F. Stoddart
Filing Date: TO BE PROVIDED
Title: Uptake of Pharmaceuticals within Cyclodextrin-based Porous Materials

21. **Serial No.:** EP 16865255.0
Country: EPO
Inventors: D. Ferris, K. Hartlieb, J. Holcroft, J.F. Stoddart
Filing Date: TO BE PROVIDED
Title: Uptake of Pharmaceuticals within Cyclodextrin-based Porous Materials
22. **Serial No.:** TO BE ASSIGNED
Country: Saudi Arabia
Inventors: Z. Liu, S. Nalluri, J.F Stoddart
Filing Date: TO BE PROVIDED
Title: Rigid Chiral Redox-Active Isosceles Triangular Materials