

VITA
PETER J. STANG

PERSONAL DATA:

BORN: November 17, 1941, Nurnberg, Germany
CITIZENSHIP: U.S.A. (Naturalized, June, 1962)
MARRIED: 1969, Christine M.E. Schirmer
CHILDREN: Antonia (b. 1973); B.S. Brown Univ. 1995; M.D. and MBA McGill Univ. 2001
Alexandra (b. 1977); Honors B.S. Univ. of Utah 2000
ADDRESS: 1406 S Chancellor Way, Salt Lake City, Utah 84108
Chemistry Department, 315 S 1400 E, Rm. 2020, University of Utah, Salt Lake City, Utah 84112
PHONE: Office – (801) 581-8329; Home – (801) 581-9749; FAX: Office – (801) 581-8433

EDUCATION

B.S. Chemistry, 1963, DePaul University, Chicago, Illinois (Magna Cum Laude)
Ph.D., Chemistry, 1966, University of California, Berkeley (NIH Fellow, with A. Streitwieser)
Postdoctoral, 1966-68, Princeton University (NIH Fellow, with P.v.R. Schleyer)

ACADEMIC EXPERIENCE

David P. Gardner Chair of Chemistry, 2014-present
Distinguished Professor of Chemistry, University of Utah, 1992-present
Dean, College of Science, University of Utah, 1997-2007
Chairperson, Department of Chemistry, University of Utah, 1989-1995
Professor, University of Utah, 1979-1992
Honorary Professor of Chemistry, CAS Institute of Chemistry, Beijing, China
Honorary Professor, Zhejiang Univ., East China Normal Univ. and East China Univ. of Science and Technology,
Soochow University, Nanjing Normal University, University of Science & Technology of China
Senior Fellow, Loker Hydrocarbon Research Inst., U. of Southern Calif. 1991-Present
Visiting Scientist, MIT, Cambridge, Mass., 1978
Associate Professor, University of Utah, 1975-79
Assistant Professor, University of Utah, 1969-75
Instructor, Princeton University, 1968-69

RESEARCH INTERESTS

Molecular Architecture via Coordination: Formation of discrete supramolecular species with well defined geometries and shapes via self-assembly (molecular triangles, squares, rectangles, pentagons, hexagons, 3D assemblies). Organometallic Chemistry; Polyvalent Iodine Species; Alkynyl Esters; Reactive Intermediates (vinyl cations, unsaturated carbenes).

PROFESSIONAL SOCIETIES

American Chemical Society Fellow
American Association for Advancement of Science (AAAS) Fellow

PETER STANG – VITA

MAJOR RECOGNITIONS AND HONORS

2020 Awarded the American Institute of Chemists Gold Medal
2019 Elected Fellow of the National Academy of Inventors
2016 Honorary Doctorate, Texas A&M University
2016 Chinese Government "International Cooperation Award in Science and Technology" (Chinese equivalent to the U.S. National Medal of Science)
2015 Chinese Government "Friendship Award" (Highest Chinese Award to foreigners)
2015 D.H.L. honoris causa, Doctor of Humane Letters, DePaul University, Chicago, Illinois
2014 Award for International Scientific Cooperation of the Chinese Academy of Sciences
2014 D.Sc. honoris causa, Honorary Doctorate, Technion, Haifa, Israel
2013 ACS Priestley Medal
2010 National Medal of Science (awarded in 2011)
2010 F.A. Cotton Medal for Excellence in Chemical Research
2009 Fred Basolo Medal for Outstanding Research in Inorganic Chemistry
Foreign Member, Hungarian Academy of Sciences, 2007
ACS Award for Creative Research and Applications of Iodine Chemistry, 2007
Linus Pauling Medal, 2006
Foreign Member, Chinese Academy of Sciences (elected 2006)
Erskine Fellow, University of Canterbury, New Zealand, 2006
ACS George A. Olah Award in Hydrocarbon or Petroleum Chemistry, 2003
Fellow, American Academy of Arts & Sciences (elected 2002)
Titular Member, European Academy of Arts, Sciences & Humanities (elected 2001)
Member, U.S. National Academy of Sciences (elected 2000)
Robert W. Parry Teaching Award in Chemistry, 2000
ACS James Flack Norris Award in Physical-Organic Chemistry, 1998
University of Utah Rosenblatt Prize for Excellence, 1995
ACS Utah Section Award, 1994
Governor's Medal for Science and Technology (State of Utah) 1993
[D.Sc. honoris causa] Honorary Doctorate of Science, Moscow State University, Moscow, Russia, February 1992
[D.Sc. honoris causa] Honorary Doctorate of Science, Russian Academy of Sciences [formerly All-Union (USSR) Academy of Sciences], February 1992
BASF Visiting Professor, Kaiserslautern, Germany, 1992
Mendeleev Lecturer, USSR Academy of Sciences, USSR 1989
Chemistry Department "Outstanding Teaching Award" 1989, 1975
Fulbright-Hays Scholar, Zagreb, Yugoslavia 1988
University of Utah Distinguished Research Award 1987
Elected Fellow of AAAS, May 1986
Lady Davis Visiting Professor, Technion, Haifa, Israel, 1986, 1997
Japan Society for the Promotion of Science (JSPS) Fellow 1985, 1998
David P. Gardner Faculty Fellow, 1984
Alexander von Humboldt "Senior U.S. Scientist Award" 1977
Listed in Marquis "American Men and Women of Science" and "Who's Who in Frontier Science and Technology"
NIH Postdoctoral Fellow, Princeton University, 1966-68
NIH Predoctoral Fellow, University of California, Berkeley, 1964-66
G.M. Pullman Scholarship, 1959-64; B.S. Magna Cum Laude, DePaul University

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SIGNIFICANT PROFESSIONAL SERVICE AND ACTIVITIES

Editor, Journal of the American Chemical Society (JACS) January 2002-present
Member, Board of Trustees, Gordon Research Conferences, 2010-2016
Chair, Pacificchem Congress 2011-2015
Vice Chair and Finance Chair Pacificchem Congress 2001-2010
Editor-in-Chief, Journal of Organic Chemistry, January 2000-October 2001
Member, Board of Directors, American Association for the Advancement of Sciences (AAAS), 2003-2007
Member, Board of Governors, Technion, Israel Inst. of Tech., Haifa, Israel, 2007-2013
Member, International Advisory Board of the Chemical Research Center, Hungarian Academy of Sciences, 2001-2011
Associate Editor, Journal of the American Chemical Society, 1982-1999
Councilor, Salt Lake Section, ACS, 1998-present
Member, Editorial Board, Chemical & Engineering News, 2001-2014
Member, ACS Council Committee on Nominations and Elections, 1999-2004
Member ACS Board Council Committee on Chemical Abstracts, 1993-1999
Member, NRC Board on Chemical Sciences & Technology 1997-2000
Member, Advisory Board, Chemical & Engineering News, 1995-1997
Editorial Advisory Board, Russian Chemical Bulletin, 1995-present
Council Delegate, AAAS Chemistry Section, 1995-1998
IUPAC, Titular Member, Organic Chemistry Div. Committee (III), 1993-1997
Advisory Committee for Fulbright Scholar Awards in Chemistry, July 1990-1993
Member, Editorial Advisory Board, Synthesis
Alternate Counselor and Member Executive Committee, ACS Division of Organic Chemistry, 1988-1991
Counselor and Member, Executive Comm., ACS Division of Organic Chemistry, 1992-1995
Co-organizer and Co-chairman, NSF Workshop on Reactive Intermediates 1984-1987
Member ACS Selection Committee, 1981-1983; 2000-2003
1985 National Organic Chemistry Symposium Executive Officer (June 1985, University of Delaware)
ACS, General Organic Chemistry Examination Committee 1983-1985
Organizing Committee 19th Reaction Mechanisms Conference, Salt Lake City, Utah, June 1982
Member and Chairman ACS Canvassing Committee Nobel Laureate Signature Award for Graduate Education in Chemistry 1978-1980
Editorial Advisor, Academic Press and VCH Publishers, Inc., 1979-1989
Chairman, UTAH AWARD – (ACS Local Section) Committee, 1977

PUBLICATION AND CITATION DATA

h-Index: 91; Total Citations 41,358; one > 3000; two > 1500; five > 1100; three > 500; seventeen > 200; forty-seven > 100; one hundred ten > 50; and one hundred thirty > 25, out of a total of 608 publications (as of March 10, 2020)

PETER STANG – VITA

INVITED SEMINARS (1999-)

1999

UC, San Diego
UC, Berkeley
University of Munich, Germany
University of Essen, Germany
University of Dortmund, Germany
Heidelberg University, Germany
University of Kaiserslautern, Germany
National Tsing Hua Univ., Taiwan
Academia, Sinica, Taiwan
University of South Carolina
University of British Columbia
University of N. Carolina, Charlotte
University of Illinois, Urbana
University of Montreal, Canada
University of Arizona

2000

Scripps Research Institute
University of South Florida
Technion, Haifa, Israel
Hebrew University, Jerusalem, Israel
Weizman Institute, Israel
Ben Gurion University, Israel
University of Alberta, Edmonton, Canada
University of Calgary, Alberta, Canada

2001

Marquette University
University of Sydney, Australia
Monash University, Melbourne, Australia
Hobart University, Tasmania, Australia
University of Adelaide, Australia
University of Perth, Australia
University of Stuttgart, Germany
University of Tübingen, Germany

2002-2003

University of Colorado, Boulder
University of North Carolina
Simon Fraser Univ., Vancouver, Canada
SUNY, Albany
Hungarian Academy of Sciences, Budapest
Eötvös University, Budapest
Los Alamos National Laboratory
Cal. Tech.
Brigham Young University
University of Texas, Austin
Purdue University
Rutgers University, Newark
Max Planck Institute, Mainz, Germany

2004

University of Iowa, Iowa
Johnson & Johnson, Philadelphia, PA
Shanghai Institute of Org. Chem., China

Beijing University, China
Pudhan University, China
Institute of Chem., Beijing, China
University of Canterbury, Christchurch, N.Z.
University of Sydney, Australia
ANU, Canberra, Australia
Osaka University, Japan
Tokushima University, Japan
RIKEN, Tokyo, Japan

2005-2006

University of Minnesota
Institute of Chemistry, CAS, Beijing
University of Wyoming
University of Oregon
University of California-Los Angeles
University of Wisconsin-Madison
University of Ottawa, Canada
North Carolina State University, Raleigh
Ortega University, New Zealand
Canterbury University, New Zealand
University of Auckland, New Zealand
Victoria University, Wellington, New Zealand
Massey University, New Zealand

2007

New York University
Columbia University
University of Tennessee
College de France, Paris, France
ISIS-Strasbourg, France
University of Rennes, France
University of Ulm, Germany
Technion, Haifa, Israel
University of Toronto
Jackson State University, MS

2008

University of Texas, El Paso
Zhejiang University, China

INVITED SEMINARS (2008-)

Nanjing University, China
UC-Berkeley
University of Alabama
University of Michigan
Michigan State University
Seoul National University, Korea
Henyang University, Korea
KAIST, Korea
Ulsan University, Korea
POSTECH, Korea
Kent State University

2009

University of Ulsan, Korea
Korean University, Sejong Campus, Korea

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Pusan National University, Korea
Kyungpook National University, Korea
University of N. Texas, Denton, Texas
Pennsylvania State University
UC, Santa Cruz

Academia Sinica, Taiwan
National Tsing-Hua Univ., Taiwan
National Taiwan Univ., Taiwan
National Chiao-Tung Univ., Taiwan
Colorado School of Mines
Rutgers University
Yale University
Charles University, Prague, Czech Republic
Inst. of Organic Chem. & Biochem., Prague
Ulsan Fine Chemical Co., Ulsan, Korea
Pukyong National Univ., Korea
Temple University
Institute of Chem, CAS, Beijing, China
Univ. of Sci. & Tech., CAS, Hefei, China
Xiamen Univ., China

2010

University of Oklahoma
University of Groningen
Tech. Univ., Berlin, Germany
Univ. of Tübingen, Germany
Univ. of Köln, Germany
Univ. of Karlsruhe, Germany
MPI, Polymer Science, Mainz, Germany
ISIS, Strasbourg, France
Inst. of Physical Chem., Dalian China
Jacobs Univ., Germany
Kiel Univ., Germany
Univ of München, Germany
Univ. of Erlangen, Germany

2011

2-23 Texas Tech. University
2-25 USC Health Sciences
5-19 Suzhou University, China
5-23 Xuzhou University, China
5-26 Chongqing University, China
5-28 Fujian Inst. of Res. on the Structure of Matter, CAS,
Fuzhou, China
5-30 Sun Yat-Sen Univ., Guangzhou, China
6-2 University of Hong Kong, Hong Kong
6-6 Hanyang University, Seoul, Korea
10-7 Yonsei University, Seoul, Korea
10-31 Univ of Basel, Switzerland
11-1 Univ. of Lausanne, Switzerland
11-2 Univ. of Neuchatel, Switzerland
11-2 Univ. of Bern, Switzerland
11-3 Univ. of Fribourg, Switzerland

2012

2-7 Chonnam National Univ., Gwangju, Korea
5-7 National University of Singapore
5-9 Xiamen University, China
5-11 Fujian Inst. of Res. on the Structure of Matter, CAS,
Fuzhou, China
10-01 Indian Institute of Technology, Mumbai, India
10-03 Indian Institute of Science, Bangalore, India
10-08 Indian Institute of Technology, Kanpur, India

2013

2-18 Colorado State University
6-24 Sogang University, Seoul, Korea
6-25 Inha University, Seoul, Korea
7-18 University of Madrid, Spain
8-19 National Univ. of Singapore (NUS), Singapore
8-21 Nanyang Technol. Univ. (NTU), Singapore
8-22 Inst. of Materials Research and Eng. (IMRE),
Singapore
9-25 Ocean University, Qinqdao, China
9-29 Hangzhou Normal University, China
9-30 Zhejiang University, Hangzhou, China

2014

2-12 MIT
2-17 KAUST, Saudi Arabia
2-24 Wayne State University, Detroit
4-4 Florida State University
4-25 Ohio State University
5-19 University of Wyoming
9-8 Texas A&M
12-10 Dalian Institute, China
12-12 Nanjing Normal University, China

2015

2-26 Dow Chemical, Philadelphia
4-20 University of South Dakota
6-24 Hunan University, Changsha, China
6-26 Huandong Univ. of Science and Technology,
Shanghai, China
6-27 East China Normal University, Shanghai China
6-28 Tianjin University, Tianjin, China
6-29 Nankai University, Tianjin, China
10-30 The University of Hong Kong
11-9 University of Montreal, Canada
11-10 McGill University, Montreal, Canada
12-4 Zhejiang University, Hangzhou, China

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2016

- 5-12 Romanian Academy of Sciences, Bucharest
- 5-16 University of Szeged, Szeged, Hungary
- 5-24 University of Dalian, Institute of Technology,
Dalian, China
- 5-30 Weizmann Institute, Rehovot, Israel
- 5-31 Tel Aviv University Dept. of Chemistry
- 6-5 Hebrew University Dept. of Chemistry,
Jerusalem, Israel
- 6-7 University of Cyprus, Dept. of Chemistry, Cyprus
- 10-29 Nanjing Normal University, Nanjing, China
- 10-30 iChEM Meeting, Hefei, China

2017

- 2-3 Texas A&M University
- 4-21 New York University
- 9-4 Ludwig Maximilian Univ., M ünich, Germany
- 9-6 University of Regensburg, Germany
- 9-11 Technical University, M ünich, Germany
- 9-14 TU Berlin, Germany
- 9-20 University of Erlangen, N ürnberg
- 10-17 Zhejiang University, Hangzhou, China
- 10-21 Jinan University, Jinan, China
- 10-22 Shandong Normal University, Jinan, China
- 10-24 Hunan Normal University, Changsha, China

2018

- 5-9 Xi'an Jiaotong University
- 5-10 Shanxi Normal University
- 5-12 Hangzhou Normal University
- 5-13 Wuhan University
- 5-17 Wuxi University of Food Science
- 9-14 Shanghai University, China
- 9-15 East China Normal University, China
- 9-19 Northwest A&F University, China
- 9-21 Northwest University of Technology, China
- 12-5 Inst. Of Chemistry, Chinese Academy of
Sciences, Beijing, China
- 12-7 South China University of Technology,
Guangzhou, China
- 12-8 Hong Kong University of Science & Technology,
Hong Kong

2019

- 3-28 Institute of Chemistry, Chinese
Academy of Sciences, Beijing
- 3-29 Southwest Minzu University, Chengdu, China
- 4-1 Xian Jio Tong University
- 4-2 Shanghai Jio Tong University
- 10-8 University of Mexico, Mexico

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- 10-31 West Lake University, Hangzhou, China
- 11-3 Jinan University, Jinan , China

2020

- 2-21 Linkoping Univ., Sweden
- 2-24 KTH, Sweden
- 2-25 Stockholm University, Sweden
- 2-27 Chalmers University, Gothenburg, Sweden
- 2-28 Uppsala University, Sweden

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MAJOR LECTURES (LAST 20 YEARS)

<u>TITLE</u>	<u>MEETING PLACE</u>	<u>DATE</u>
Invited Speaker	South American Physical Organic Conference, Florianopolis, Brazil	April 1995
Invited Speaker	KISPOC VI, Kyushu, Japan	July 1995
Invited Speaker	Gordon Conference on Organometallic Chemistry, Newport, R.I.	July 1995
Invited Speaker	Symposium on Novel Compounds; Novel Properties, Honolulu, HI	December 1995
Plenary Lecturer	13th IUPAC Conference on Phys. Org. Chem., Seoul, Korea	August 1996
Invited Speaker	Gordon Conference: Organic Struct. & Propert., Fukuoka, Japan	September 1996
Invited Speaker	New Horizons in Chemistry, Loker Institute, USC	November 1997
Plenary Lecturer	KISPOC-VII, Kyushu, Japan	December 1997
Symposium Speaker	James Flack Norris Award Symp., ACS-Meeting, Dallas, TX	March 1998
Plenary Speaker	Fifth International Conference on Heteroatom Chemistry, University of W. Ontario, Canada	July 1998
Coover Lecturer	Coover Lecture, Iowa State Univ., Ames, Iowa	October 1998
Laird Lecturer	University of British Columbia	March 1999
Plenary Speaker	US-Taiwan Organometallic Conf.	April 1999
Murtiashaw Lecturer	University of South Carolina	September 1999
Merck Frosst Lecturer	Univ. of Montreal, Canada	October 1999
Invited Speaker	Contemporary Inorg. Chem. II, Texas A & M	March 2000
Symposium Speaker	Pacificchem, Honolulu, Hawaii	December 2000
Invited Speaker	Cotton Symposium, ACS, San Diego	April 2001
Wyeth-Ayerst Lecturer	University of Pennsylvania	April 2001
Plenary Lecturer	27th National Organic Symposium, Bozeman, MT	June 2001
Plenary Lecturer	ISNA 10, San Diego, CA	August 2001
S. Cristol Lecturer	University of Colorado	February 2002
Invited Speaker	25th Anniversary Loker Hydrocarbon Inst. USC, Los Angeles	March 2002
F.M. Garland Lecturer	Texas A & M, Kingsville, TX	April 2002
H. Kuivila Lecturer	SUNY, Albany	April 2002
Johnson Symposium	Stanford University	October 2002
Dow Lecturer	California Inst. of Technology	January 2003
H. Smith Broadbent Lecturer	Brigham Young University	February 2003
R. Pettit Lecturer	UT-Austin	February 2003
Donald Lecturer	McGill University	March 2003
Friedman Lecturer	Rutgers University	April 2003
Plenary Lecturer	28th Int. Conference on Solution Chemistry, Debrecen, Hungary	August 2003
Fuson Lecturer	University of Nevada, Reno	November 2003
19th Molecular Sc. Forum Speaker	Inst. of Chem., Chinese Academy of Sciences, Beijing, China	April 2004
Liversidge Lecturer	University of Sydney, Australia	June 2004
David P. Craig Lecturer	ANU, Canberra, Australia	June 2004
Plenary Lecturer	ISSC-XIII, Notre Dame	June 2004
George Olah Lecturer	University of Southern California	October 2004
Paul Gassman Lecturer	University of Minnesota	January 2005
Lutz Lecturer	University of Virginia	April 2005
Merck Frosst Lecturer	University of Waterloo, Canada	May 2005
Rhoads/Raulins Lecturer	University of Wyoming	October 2005

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MAJOR LECTURES (LAST 20 YEARS)

<u>TITLE</u>	<u>MEETING PLACE</u>	<u>DATE</u>
Bachmann Lecturer	University of Michigan	February 2008
Arduengo Lecturer	University of Alabama	March 2008
Plenary Lecturer	26th Congress of the Chinese Chemical Society, Tienjin, China	July 2008
Invited Speaker	Division of Organic Chem. Centennial Symposium, 236th ACS National Meeting	August 2008
Dow/Karabatsos Lect.	Michigan State University	September 2008
Schleyer Lecturer	University of Georgia	February 2009
Tread B. Johnson Lecturer	Yale University	May 2009
Karcher Lecture	University of Oklahoma	February 2010
Backer Lecture	University of Groningen	June 2010
H.J. Shine Lecture	Texas Tech. University	February 22, 2011
Lu, Jiaxi Lecture	Chem. Dept., Xiamen Univ. China	May 9, 2012
Smith Lecture	UC-Davis	May 17, 2012
Hünig Lecture	Würzburg, Germany	May 6, 2013
Editors Forum	Asian Chemical Congress, Singapore	August 21, 2013
Sheldon Shore Lecturer	Ohio State University	April 25, 2014
Zhang Dayu Lecture	Dalian, China	December 11, 2014
Schleyer Symposium	Athens, Georgia	February 12, 2015
Eminent Scholar Lecture	Texas A&M	May 4, 2015
Peiyang Lecture	Tianjin University, Tianjin, China	June 30, 2015
Bone Lecture	Wilkes University, Pennsylvania	October 21, 2015
Aldrich Lecture	McGill University, Canada	November 10, 2015
Invited Speaker	7th ISBBN Symposium, Hunan University	May 27, 2016
Invited Speaker	Wolf Symposium, Technion, Israel	June 1, 2016
Plenary Lecture	60th Anniversary Symposium, ICCAS, Beijing, China	October 23, 2016
Distinguished Speaker	Texas A&M University, Doha, Qatar	January 19, 2017
Plenary Lecture	π -electron Systems, Hong Kong	June 6, 2017
Plenary Lecture	Singapore	June 19, 2017
Invited Speaker	50-years of Stoddart Chemistry, Cambridge, UK	July 7, 2017
Plenary Lecture	Global Lecture Series, Zhejiang University, Hangzhou, China	July 19, 2017
Howard Tieckelmann Memorial Lecture	University of Buffalo, New York	May 4, 2018
Hua Yuan Lectureship	School of Chemical Engineering at Huazhong University of Science and Technology	May 13, 2018
Plenary Lecturer	Future Science Forum, Jiliu University, China	September 17, 2018
Yangzhongjian Lecturer	Northwest University, Xi'an, China	September 21, 2018
Plenary Lecturer	2 nd Middle-Eastern Materials Science Conference, Abu-Dhabi, UAE	November 12, 2018
Plenary Lecturer	Nanjing Technology Week, Nanjing, China	June 4, 2019
Master Distinguished Lecture	Shanghai Jiao Tong University	October 30, 2019
Keynote Speaker	International Conference on Frontiers of Science, ICCAS, Beijing	November 7, 2019.

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CURRENT FUNDING

<u>TITLE</u>	<u>AGENCY</u>	<u>AMOUNT</u>
Abiological Self-Assembly via Coordination	Hunan University, China 2014-2019	\$1,200,000
Active Delivery of Platinum Nanoimmuno conjugates to Improve Breast Cancer Therapy (Co-PI)	NIH (2017-2022)	\$2,800,565

PROPSAL

<u>TITLE</u>	<u>AGENCY</u>	<u>AMOUNT</u>
Precision Delivery of Pt and Ru Nanoimmuno conjugates to Tumors for Improved Therapy	NIH	\$1,872,500

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Ph.D.s AWARDED

<u>NAME</u>	<u>YEAR</u>	<u>PRESENT POSITION</u>
Thomas E. Dueber	1974	DuPont, Wilmington, Delaware
Robert J. Hargrove	1974	Mercer University, Macon, Georgia
Michael G. Mangum	1975	Hercules Chem. Co., Salt Lake City, Utah
Albert Anderson	1977	Central Research Dept., DuPont, Wilmington, Delaware
Thomas E. Fisk	1979	Dow Chemical Co., Michigan
Warren Treptow	1979	Dow Chemical Co., Michigan
Dennis P. Fox	1982	Stouffer Chemical Co.
Mitchell R. White	1983	Dow Chemical Co., Michigan
Gary Anderson	1983	Gary Indust. Inc., Connecticut
Stephen Christensen	1984	Dow Chemical Co., Michigan
Vandana Dixit	1985	Analchem Pvt. Ltd., India
Alan Learned	1987	DuPont
Arun Datta	1988	University of Connecticut
Mark Kowalski	1988	Hewlett-Packard, Oregon
Linsheng Song	1990	Bio-Technical Resources, Wisconsin
Zhandong Zhong	1991	Postdoc, NIH, Bethesda, Maryland
Yo-Hsin Huang	1991	Chains, Inc., Fremont, CA
Charles Crittell	1993	East Central University, OK
Robert Hinkle	1994	College of William and Mary, Virginia
Bobby L. Williamson	1994	Georgia-Pacific Resins, Inc., Georgia
Rik R. Tykwinski	1994	Prof., University of Alberta, Canada
Danh Cao	1996	Battelle, Salt Lake City
Paul Murch	1997	WITCO Inc., West Virginia
Jeffery Whiteford	1997	Nanosys. Inc. California
Neal Persky	1998	Humboldt Postdoc., Max Planck Ins. Mainz, Germany
Bogdan Olenyuk	1998	Proteogenomic Research Institute for Systems Medicine
Jun Fan	1999	Postdoctoral, Pharmacy, University of Utah
Christopher J. Kuehl	2001	Postdoctoral, Los Alamos National Lab.
S. Russell Seidel	2003	Berry College, Rome, Georgia
Yuri Kryschenko	2003	Moscow, Russia
Takuya Yamamoto	2004	University of Tokyo
Neeladri Das	2006	Chair, Dept. of Chemistry IIT Patna, India
Umamageswaran Maran	2009	Postdoc, University of Utah, Dept. of Pharm. & Pharm. Chem.
Koushik Ghosh	2010	University of Illinois, Urbana-Champaign
Yaorong Zheng	2011	Postdoc, MIT
Bryant Pollock	2014	Postdoc, Northwestern University
Zhixuan Zhou	2018	Postdoc, Germany
Shiho Kobayashi	2019	

M.S. DEGREES AWARDED

Jon Bjork	1978	3M Co. Minnesota
Lydia White	1981	Thiokol Corp.
Robyn Bunch	1990	Hill Air Force Base
Scott Campbell	1991	
Diane Babski	1993	
Biswaroop Chatterjee	2003	

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FORMER POSTDOCTORAL AND RESEARCH ASSOCIATES

NAME	YEAR	PRESENT POSITION
Koushik Acharyya	2018-2019	Visiting Scholar
Christopher Addicott	2002-2004	Research Directions Pty. Ltd., Brisbane
James Ambrose	1977-79 Postdoc	Hercules Chemical Co., Salt Lake City, UT
Zhe An	2015-2016 Visiting Scholar	
Manfred B öshar	1985-86 Postdoc	Hoechst Chemical Co, Germany
Rajesh Chakrabarty	2009-2011 Postdoc	
Kuanchiang Chen	1994-96 Postdoc	IBC Advance Tech., American Fork, UT
Wenrui Chen	2016-2018 Visiting Scholar	Ph D, Wuhan University of Technology
Zen-Chu Chen	1983-85 Postdoc (PRC Scholar)	Hangzhou University, PRC
Ki-Whan Chi	2003-2004 Visiting Scientist	University of Ulsan, Korea
Timothy R. Cook	2011-2014 Postdoc	New York State University, Buffalo, NY
Sougata Datta	Visiting Scholar/Researcher	Indian Association for the Cultivation of Science (IACS)
Hendrik Disteldorf	2002-03 DFG Postdoc	Germany
Wallace W. Ellis	1998-00 Postdoc	Natl. Energy Lab, Colorado
Laszlo Fabry	1987 Postdoc	Wacker Chemitronic, Germany
David Fischer	1990-92 DOW Postdoc	Sandoz Agro, Inc., Des Plaines, IL
Markus Frank	2004-2005 Postdoc	Boehringer Ingelheim, Germany
Antonio Fronda	1992 NATO Postdoc	Kaiserslautern, German
Bernhard Geissler	1994 Postdoc	BASF, Germany
Amrita Saha Ghosh	Visiting Scholar	University of Delhi, India
Ashutosh Ghosh	2004-2005 Visiting Scientist	University of Calcutta, India
Zuoli He	2013-2014 Visiting Scholar	Xi'an Jiaotong University
Feihe Huang	2005-2006 Postdoc	Zhejiang University, China
Jianying Huang	2011-2013 Visiting Scholar	Hangzhou Normal University
Long Jiang	2014-2015 Visiting Scholar	Sun Yat-Sen University, Guangzhou, China
Lin Jing	1984-86 Postdoc (PRC Scholar)	Xiamen Univ., PRC
Hershel Jude	2004-2006	Los Alamos National Laboratory
Jeum-Jong Kim	2006-2007	Korea
Tsugio Kitamura	1986-88 Postdoc	Assoc. Prof., Kyushu Univ., Fukuoka, Japan
Xian Qiang Kong	2015 Visiting Scholar	Jiangsu Normal University, Xuzhou, China
Konrad Krageloh	1983-84 NATO Postdoc	Stuttgart, Germany
Alexei Kurchan	2005-2006 Postdoc	Infineum, USA, New Jersey
Mladen Ladika	1979-82 Fulbright Postdoc	Dow Chemical Company
Jun Seong Lee	2009 Postdoc	Chonnam National University, Korea
Stefan Leininger	1997-99 Humboldt Postdoc	Degussa-Heuels, Germany
Michael Levin	1998-00 Postdoc	Diversa Corp., San Diego, CA
Shijun Li	2011-2013 Visiting Scholar	Hangzhou Normal University
Zhengtao Li	2014-2015 Visiting Scholar	Zhejiang University, Hangzhou, China
Zhongyu Li	2017-2018 Visiting Scholar	Xuzhou Normal University
Mei Luo	2014-2015 Visiting Scholar	Hefei University of Technology, Hefei, Anhui, China
Gerhard Maas	1979-80 DFG Postdoc Germany	Professor, University of Ulm, Germany
Joseph Manna	1995-97 Postdoc	Rohm and Haas, Kentucky
Qiu Mei	1984-86 Postdoc (PRC Scholar)	Hangzhou University PRC
Gregory Molev	2010-2011 Postdoc	Univ. of Toronto, Toronto, Canada
Partha S. Mukherjee	2003-04 Postdoc	Indian Institute of Science, Bangalore, India
Christian Müller	1996-98 F. Lyman Postdoc	Reemtsma, Germany
Rainer Munschauer	1992-93 BASF Postdoc	University of Texas at El Paso
Venkata Neti	2014-2015 Postdoc	University of Texas at El Paso
Yong Nie	2014-2015 Visiting Scholar	Jinan University, Jinan City, China
Brian Northrop	2007-2009 NIH Postdoc	Wesleyan University
Juan Noveron	2003-2004 Postdoc	University of Texas, El Paso

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Robert Peiffer	1972-74 Postdoc	DuPont, Wilmington, Delaware
U. Radhakrishnan	2000-2002 Postdoc	PNS Pharmaceuticals
John Ryan	1994-96 Postdoc	Australian Natl. Univ. Canberra, Australia
Manik Lal Saha	Postdoctoral Fellow	Eastman Kodak, Texas
Marion Schmitz	1998-80 Humboldt Postdoc	Wacker Chemical, Germany
Hans Schubert	1983-84 NATO Postdoc	Hoechst Chem. Co. Frankfurt, Germany
Manuela Schweiger	1999-2001 Schroedinger Postdoc	Austria
Hajar Sepehrpour	2014 Visiting Scholar	Shiraz University, Iran
BingBing Shi	2018-2019 Postdoc	Full Professor, Northwest Normal University
Yanhui Shi	2013, 2015 Visiting Scholar	Xuzhou Normal University
Michael Slany	1995-96 Humboldt Postdoc	BASF, Germany
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Bruce Surber	1984-85 Postdoc	Pathfinder Chem. Co., St. Louis
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Haoze Wang	2015 Visiting Scholar	Zhejiang University, Hangzhou, China
Yilang Wang	2019 Visiting Scholar	Shanghai University
Ming Wang	2009-2011 Postdoc	Tufts University
Dehui Wang	2018-2019 Visiting Scholar	Liaoning Shishua University, China
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Peifa Wei	2014-2015 Visiting Scholar	Zhejiang University, Hangzhou, China
Horst Wingert	1986-87 Postdoc	BASF, Germany
Lars G. Wistrand	1979-80 Swedish NSF Postdoc	Hafslund Nycomed Innov. AB, Sweden
Ying Wu	2013 Visiting Scholar	Zhejiang Normal University
Shipei Xing	Visiting Scholar	Zhejiang University, Hangzhou, China
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Haibo Yang	2005-2008 Postdoc	East China Normal School, Shanghai
Yong Yang	2014-2015 Visiting Scholar	Zhejiang Sci-Tech University, Hangzhou, China
Yong Yao	Postdoctoral Fellow	Ph.D. Zhejiang University, Hangzhou, China
Shouchun Yin	Postdoctoral Fellow	Hangzhou Normal University
Huaxu Yu	Visiting Scholar	Zhejiang University, Hangzhou, China
Dengqing Zhang	2014-2015 Visiting Scholar	Donghua University, Shanghai, China
Mingming Zhang	Postdoctoral Fellow	Ph.D. Zhejiang University, Hangzhou, China
Qian Zhang	2018-2019 Visiting Scholar	Hangzhou Normal University, Hangzhou, China
Liang Zhao	2007-2009 Postdoc	Tsinghua University, Beijing
Wanxiang Zhao	Postdoctoral Fellow	The Hong Kong University of Science and Technology
Yibo Zhao	Visiting Scholar	Ph D Tianjin University
Zhi Gag Zhao	2009-2010 Postdoc	Southwest Univ. for Nationalities, China
Zilong Zhao	2018-2019 Visiting Scholar	Associate Professor, Hunan University
Viktor V. Zhdankin	1990-93 Postdoc	University of Minnesota, Duluth
Fengyan Zhou	2013 Visiting Scholar	Zaozhuang University, China
Jian-Hong Tang	Visiting Scholar/Researcher	University of Cincinnati, Ohio
Yanrong Li	Visiting Scholar	University of Illinois Urbana-Champaign Illinois
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PETER STANG – VITA

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Wei Tuo	Visiting Scholar	Huazhong Normal University, Wuhan, China
Yanling He	Visiting Scholar	Liaocheng University, Liaocheng, China
Huangtianzhi Zhu	Visiting Scholar	Zhejiang University, Hanzhou, China
Qi Li	Visiting Scholar	Zhejiang University, Hanzhou, China
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Mbonu		
Zhao Chen	Visiting Scholar	Jiangxi Science and Technology Normal University Nan Chang, China

TEACHING

Undergraduate:

Chemistry 2310 (Org. Chem. 1)

Chemistry 2311 (Honors General Organic Chemistry)

Chemistry 2310 (Honors General Organic Chemistry)

Graduate:

Chemistry 622 (Spectroscopy for Organic Chemists, Optical, NMR including C-13 Mass Spectroscopy, etc.)

Chemistry 624 (Mechanistic, Physical-Organic Chemistry)

ADMINISTRATIVE AND COMMITTEE (LAST 15 YEARS)

Personnel Committee, 2007-

Faculty Awards and Public Relations Committee, 2007-

Dean, College of Science, 1997-2006

Chair, Search Committee Senior Vice President for Academic Affairs, 1998

Faculty Budget & Advisory Committee, 1997-2001

Honors Program Advisory Committee, 1997-2001

Regent's Presidential Search Committee, 1997

Faculty Committee on Community and Governmental Relations, 1995-1998

Board of Trustee's Honorary Degree Committee, 1996-1998

University Promotion and Tenure Advisory Committee, 1995-1998

University Salaries & Annuities Committee, 1994-1997

Chair, Department of Chemistry, 1989-1995

PETER STANG – VITA

PUBLICATIONS OF PETER J. STANG

B: Book; C: Communication or Note; P: Full Paper; R: Review, Book-Chapter

1964-1968

1. C A Convenient Preparation of Methanol-d, A. Streitwieser, Jr., L. Verbit, P.J. Stang, J.Org.Chem. **1964**, 29, 3706.
2. C Boron Fluoride-Alcohol Alkylation, III, Stereochemistry of Alkylation of Benzene with 1-Propanol-1-d₃, A. Streitwieser, Jr., P.J. Stang J. Am. Chem. Soc. **1965**, 87, 4953.
3. R Physical Organic Chemistry: Quantitative Conformation Analysis, Calculation Methods, J.E. Williams, P.J. Stang, and P.v.R. Schleyer Ann. Rev. Phys. Chem. **1968**, 19, 531-558.

1969-1973

4. C Preparation and Solvolysis of Vinyl Trifluoromethanesulfonate. I. Evidence for Simple Alkylvinyl Cation Intermediates, P.J. Stang and R. Summerville, J. Am. Chem. Soc. **1969**, 91, 4600-4601.
5. C 1-*tert*-Butylvinyl Trifluoromethanesulfonate: Solvolysis and Rearrangement *via* a Vinyl Cation, A.G. Martinez, M. Hanack, R.H. Summerville, P.v.R. Schleyer, and P.J. Stang, Angew. Chem. Int. Ed., Engl. **1970**, 9, 302-303.
6. C Preparation of Cyclic and Acyclic Vinyl Trifluoromethanesulfonates, T.E. Dueber, P.J. Stang, W.D. Pfeifer, R.H. Summerville, M.A. Imhoff, P.v.R. Schleyer, K. Hummel, S. Bocher, C.E. Harding, and M. Hanack, Angew. Chem. Int. Ed., Engl. **1970**, 9, 521-522.
7. C Methoxy Groups as Probes for Delocalized Cations, Substituent Effects on 2-Norbornyl Solvolysis Rates, P.v.R. Schleyer, P.J. Stang, and D.J. Raber, J. Am. Chem. Soc. **1970**, 92, 4725-4728.
8. P Rearrangements Involving Simple Vinyl Cations Generated by Solvolysis, M.A. Imhoff, R.H. Summerville, P.v.R. Schleyer, A.G. Martinez, M. Hanack, T.E. Dueber, and P.J. Stang, J. Am. Chem. Soc. **1970**, 92, 3802-3804.
9. C Secondary Kinetic Deuterium Isotope Effects in Vinyl Cations, R.J. Hargrove, T.E. Dueber, and P.J. Stang, Chem. Comm. **1970**, 1614-1615.
10. B Organic Spectroscopy, Principles and Application, P. Laszlo and P.J. Stang, Harper & Row Publishers, New York, 1971.
11. P The Behavior of Bent Vinyl Cations Generated by Solvolysis of Cyclic Trifluoromethanesulfonates, W.D. Pfeifer, C.A. Bahn, P.v.R. Schleyer, S. Bocher, C.E. Harding, K. Hummel, M. Hanack, and P.J. Stang, J.Am.Chem. Soc. **1971**, 93, 1513-1516.
12. C Solvolysis of Allenyl Bromide in Aqueous Ethanol, C.V. Lee, R.J. Hargrove, T.E. Dueber, and P.J. Stang, Tetrahedron Lett. **1971**, 27, 2519-2522.
13. B Spectroscopic Organique: Principes et Applications, P. Laszlo and P.J. Stang, Hermann, Paris, 1972.
14. C Mechanism of Rearrangement Across the Double Bond in Vinyl Cations Generated by Solvolysis, Evidence of a Vinylidene Phenonium Ion, P.J. Stang and T.E. Dueber, J. Am. Chem. Soc. **1973**, 95, 2683-2686.

PETER STANG – VITA

15. C Secondary Kinetic Deuterium Isotope Effects in the Solvolysis of Vinyl Triflates. Further Evidence for a Vinylidene Phenonium Ion, P.J. Stang and T.E. Dueber, J. Am. Chem. Soc. **1973**, 95, 2686-2687.
16. R Vinyl and Allenyl Cations, P.J. Stang, Prog. Phys. Org. Chem. **1973**, 10, 205-325.
- 1974-1978**
17. P Solvolysis of Vinyl Triflates: Effect of Alkyl Substituents, Solvents and Added Nucleophiles, R.H. Summerville, C.A. Senkler, P.v.R. Schleyer, T.E. Dueber, and P.J. Stang, J. Amer. Chem Soc. **1974**, 96, 1100-1110.
18. C Vinyl Triflates in Synthesis. I. *tert*-Butylacetylene, R.J. Hargrove and P.J. Stang, J. Org. Chem. **1974**, 39, 581-582.
19. P Deuterium Isotope Effects in the Solvolytic Reactivity of Simple Alkylvinyl Triflates, P.J. Stang, R.J. Hargrove, and T.E. Dueber, J. Chem. Soc. Perkins II **1974**, 843-847.
20. P Unsaturated Carbenes from Primary Vinyl Triflates. I. Method and Scope, P.J. Stang, M.G. Mangum, D.P. Fox and P. Haak, J. Am. Chem Soc. **1974**, 96, 4562-4569.
21. Applied Spectroscopy Reviews, Volume 7, by E.G. Brame, Jr., Ed., Book Review by P.J. Stang, J. Amer. Chem. Soc. **1974**, 96, 4730.
22. P Preparation of Vinyl Trifluoromethanesulfonates: 3-Methyl-2-Buten-2Yl Triflate, P.J. Stang and T.E. Dueber, Organic Synthesis, **1974**, 54, 79-84.
23. Infrared Spectra of Labeled Compounds, by S. Pinchas and I. Laulich, Book Review by P.J. Stang, J. Am. Chem. Soc. **1974**, 96, 6538.
24. Introduction of Organic Chemistry, by J.T. Gerig, Book Review by P.J. Stang, J. Amer. Chem Soc. **1974**, 96, 8121-8122.
25. P Unsaturated Carbenes from Primary Vinyl Triflates. II. Spin Multiplicity via Stereochemistry of Addition to Olefins, P.J. Stang and M.G. Mangum, J. Amer. Chem Soc. **1975**, 97, 1459-1464.
26. C Unsaturated Carbenes from Primary Vinyl Trifluoromethanesulfonates. III. α vs. β Elimination from Monoalkyl Vinyl Trifluoromethanesulfonates, P.J. Stang, J. Davis, and D.P. Fox, J. Chem. Soc. Chem. Commun. **1975**, 17.
27. C Vinyl Triflates in Synthesis. II. 1,1-Di-Tri-, Tetrasubstituted and Deuterio Allenes from Ketones via Vinyl Triflates, P.J. Stang and R.J. Hargrove, J. Org. Chem. **1975**, 40, 657-658.
28. C Simple Alkyl Methylenecyclopropenes via Addition of Unsaturated Carbenes to Alkynes, P.J. Stang and M.G. Mangum, J. Am. Chem. Soc. **1975**, 97, 3854-3856.
29. P Unsaturated Carbenes from Primary Vinyl Triflates. V. The Nature of Vinylidene Carbene Intermediates, P.J. Stang and M.G. Mangum, J. Am. Chem. Soc. **1975**, 97, 6478-6481.
30. Methodicum Chemicum, Vol. 1A & B Analytical Methods, by F. Korte. Book Review by P.J. Stang, J. Am. Chem. Soc. **1975**, 97, 5648.
31. P Solvolysis of Medium Ring Size Cycloalkenyl Triflates, A comparison of Relative Rates versus Ring Size, R.J. Hargrove and P.J. Stang, Tetrahedron, **1976**, 32, 37-41.

PETER STANG – VITA

32. P Hammett and Taft Substituent Constants for the Mesylate, Tosylate and Triflate Groups, P.J. Stang and A.G. Anderson, J. Org. Chem. **1976**, 41, 781-785.
33. Advances in Physical Organic Chemistry, Vol. 11, by V. Gold and D. Bethell, Book Review by P.J. Stang, J. Am. Chem. Soc. **1976**, 98, 5052.
34. C A Convenient Two Step Synthesis of 2,6-Di-*tert*butyl-4- methylpyridine, a Sterically Hindered Non-Nucleophilic Base, A.G. Anderson and P.J. Stang, J. Org. Chem. **1976**, 41, 3034-3036.
35. P On Attempts at Solvolytic Generation of Aryl Cations, L.R. Subramanian, M. Hanack, L.W.K. Chang, M.A. Imhoff, P.v.R. Schleyer, F. Effenberger, W. Kurtz, P.J. Stang, T.E. Dueber, J. Org. Chem. **1976**, 41, 4099-4103.
36. P Unsaturated Carbenes from Primary Vinyl Triflates. 6. Competitive Addition of Isopropylidene Carbene to Olefins, P.J. Stang, J.R. Madsen, M.G. Mangum, and D.P. Fox, J. Org. Chem. **1977**, 42, 1802-1804.
37. P Unsaturated Carbenes from Primary Vinyl Triflates. 7. Reaction with Azoarenes, P.J. Stang and M.G. Mangum, J. Am. Chem. Soc. **1977**, 99, 2597-2601.
38. P Mechanism of Reaction of *cis* and *trans*-3-Phenyl-2-buten-2-yl Triflates. Evidence for Vinylidene Phenonium Ions, P.J. Stang and T.E. Dueber, J. Am. Chem. Soc. **1977**, 99, 2602-2610.
39. C Preparation and Solvolysis of Vinyl Triflates. XIV. Further Rearrangements in Vinyl Cations, P.J. Stang, and T.E. Dueber, Tetrahedron Lett. **1977**, 18, 563-566.
40. C Alkylidene Carbene Generation from Tosylazoalkenes and Silylvinyl Triflates, P.J. Stang and D.P. Fox, J. Org. Chem. **1977**, 42, 1667-1669.
41. C Preparation and Chemistry of Vinyl Triflates. XV. Alkylation of Aromatic Substrates, P.J. Stang and A.G. Anderson, Tetrahedron Lett. **1977**, 17, 1485-1488.
42. The PMO Theory of Organic Chemistry by M.J.S. Dwar and R.C. Dougherty, Book Review by P.J. Stang, J. Am. Chem. Soc. **1977**, 99, 3202.
43. P Vinyl Cations. Part 13. Secondary Kinetic Deuterium Isotope Effects in the Solvolysis of Ring Substituted Styryl Trifluoromethanesulfonates, P.J. Stang, R.J. Hargrove, and T.E. Dueber, J. Chem Soc. Perkin, 2 **1977**, 1486-1490.
44. P Preparation and Chemistry of Vinyl Triflates. 16. Mechanism of Alkylation of Aromatic Substrates, P.J. Stang and A.G. Anderson, J. Am. Chem. Soc. **1978**, 100, 1520-1525.
45. P Unsaturated Carbenes from Primary Vinyl Triflates. 9. Intramolecular Rearrangement via Free Carbenes, P.J. Stang, D.P. Fox, C.J. Collins, and C.R. Watson, Jr., J. Org. Chem. **1978**, 43, 364-365.
46. Advanced Organic Chemistry: Reactions, Mechanisms and Structures, 2nd Ed., by J. March, Book Review by P.J. Stang, J. Am. Chem. Soc. **1978**, 100, 6799-6800.
47. R Vinyl Triflate Chemistry: Unsaturated Cations and Carbenes, P.J. Stang, Accounts Chem. Res. **1978**, 11, 107-114.
48. R Unsaturated Carbenes, P.J. Stang, Chem Rev. **1978**, 78, 383-405.

PETER STANG – VITA

49. C Reaction of Isopropylidenecarbene with Isonitriles. Evidence for the Formation of Alkadienylideneamine, P.J. Stang and J.A. Bjork, J. Chem. Soc. Chem Commun. **1978**, 1057-1058.

1979-1983

50. B Vinyl Cations, P.J. Stang, Z. Rappoport, M. Hanack, and L.R. Subramanian, Academic Press, New York, 1979.
51. P Synthesis of 1-(Ethyne)-Vinyl-Trifluoromethanesulfonates, P.J. Stang and T.E. Fisk, Synthesis **1979**, 438-440.
52. P Extended Unsaturated Carbenes. Generation and Reaction of Allenylidene Carbenes, $(R)_2C=C=C=C:$, with Olefins, P.J. Stang and T.E. Fisk, J. Am. Chem. Soc. **1979**, 101, 4772-4773.
53. C Exocyclic Alkylidene Carbenes An Ab-Initio Theoretical Study, Y. Apeloig, R. Schrieber, and P.J. Stang, Tetrahedron Lett. **1980**, 21, 411-414.
54. C Generation of a *m*-Xylylene Derivative and Formation of a 2,2-Metacyclophane, J.J. Gajewski, M.J. Chang, P.J. Stang, and T.E. Fisk, J. Am. Chem. Soc. **1980**, 102, 2096.
55. Physicochemical Measurement by Gas Chromatography, J.R. Conder, C.L. Young, Book Review by P.J. Stang, J. Am. Chem. Soc. **1980**, 102, 5134-5135.
56. P Extended Unsaturated Carbenes. Generation and Trapping of an Alkatetraenylidene carbene, $(R)_2C=C=C=C=C=C:$, P.J. Stang and M. Ladika, J. Am. Chem. Soc. **1980**, 102, 5406-5407.
57. C Preparation and Characterization of Novel Dication Ether Salts: $Ar^+OAr^+ 2CF_2SO$, P.J. Stang, G. Maas, and T.E. Fisk, J. Am. Chem. Soc. **1980**, 102, 6361-6362.
58. P Extended Unsaturated Carbenes. Generation and Nature of Alkadienylidene carbenes, P.J. Stang and T.E. Fisk, J. Am. Chem. Soc. **1980**, 102, 6813-6816.
59. P Single-Step Improved Synthesis of Primary and Other Vinyl Trifluoromethanesulfonates, P.J. Stang and W. Treptow, Synthesis **1980**, 283-284.
60. R Allene Oxides and Related Species, P.J. Stang in Chemistry of Ethers, Crown Ethers, Hydroxyl Groups and Their Sulphur Analogs, S. Patai, Ed., J. Wiley & Sons, London, **1980**; Chapt. 19, pp. 859-879.
61. C σ -Cumulenic Transition Metal Compounds. Remarkably Stable Cobaloxime Complexes; $R_2C=C=C=CHCo(dm_g)_2py$, P.J. Stang and L. Wistrand, J. Organomet. Chem. **1981**, 204, 405-409.
62. P Synthesis of 1-(Butadiynyl)-vinyl Trifluoromethanesulfonates, P.J. Stang and M. Ladika, Synthesis **1981**, 29-30.
63. P α -Silicon and α -Alkynyl Substituted Vinyl Cations, M.D. Schiavelli, D.M. Jung, A.K. Vaden, P.J. Stang, T.E. Fisk, and D.S. Morrison, J. Org. Chem. **1981**, 46, 92-95.
64. C Unsaturated Carbenes, 14. Divinyl Sulfides via Insertion of Alkylidenecarbenes into Enethiols, P.J. Stang and S.B. Christensen, J. Org. Chem. **1981**, 46, 823-824.
65. P Synthesis and Antitumor Activity of Simple Vinyl and γ -Methylene- δ -butyrolactone Sulfonate Esters and Silyl Enol Ethers, P.J. Stang and W.L. Treptow, J. Med. Chem. **1981**, 24, 468-472.

PETER STANG – VITA

66. P Dication Disulfides by Reaction of Thioureas and Related Compounds with Trifluoromethanesulfonic Anhydride. The Role of Triflic Anhydride as an Oxidizing Agent, G. Maas and P.J. Stang, J. Org. Chem. **1981**, 46, 1606-1610.
67. P Dication Ether Salts, $R^+OR^+ 2CF_3SO$, from the Reaction of Trifluoromethanesulfonic Anhydride with Activated Ketones, P.J. Stang, G. Maas, D.L. Smith and J.A. McCloskey, J. Am. Chem. Soc. **1981**, 103, 4837-4845.
68. C Simple Novel Preparation of Unsymmetrical Triacetylenes, M. Ladika and P.J. Stang, J. Chem. Soc. Chem. Comm. **1981**, 459-460.
69. P Extended Unsaturated Carbenes. Novel Silicon, Germanium, and Tin Functionalized Cumulenes, $R_2C=C=C=CHMR'_3$, via insertion of Alkadienylidenecarbenes into Group 4 Hydrides, P.J. Stang and M.R. White, J. Am. Chem. Soc. **1981**, 103, 5429-5433.
70. P Extended Unsaturated Carbenes. Generation, Nature and Chemistry of Alkatetraenylidenecarbenes, P.J. Stang, M. Ladika, J. Am. Chem. Soc. **1981**, 103, 6437-6443.
71. R Small and Strained Ring Systems via Unsaturated Carbenes, P.J. Stang, Israel J. Chem. **1981**, 21, 119-127.
72. P 2,6-Di-tert-butyl-4-methylpyridine (Pyridine, 2,6-bis(1,1-diemthylethyl)-3-methyl-), A.G. Anderson and P.J. Stang, Org. Syn. **1981**, 60, 34-40.
73. C Vinyl Carbamates via Interaction of Alkylidenecarbenes with Isocyanates, P.J. Stang and G.H. Anderson, J. Org. Chem. **1981**, 46, 4585-4586.
74. R Perfluoroalkanesulfonic Esters: Methods of Preparation and Application in Organic Chemistry, P.J. Stang, M. Hanack, L.R. Subramanian, Synthesis **1982**, 85-126.
75. P Butadiynyl-Substituted Vinyl Cations, M. Ladika, P.J. Stang, M.D. Schiavelli, M.R. Hughey, J. Org. Chem. **1982**, 47, 4563-4566.
76. R Recent Developments in Unsaturated Carbenes and Related Chemistry, P.J. Stang, Accounts Chem. Res. **1982**, 15, 348-354.
77. C Bimolecular Substitution at Carbon in Neopentyl like Silyl Carbonyl Sulfonates, P.J. Stang, M. Ladika, Y. Apeloig, A. Stanger, M.D. Schiavelli, M.R. Hughey, J. Am. Chem. Soc. **1982**, 104, 6852-6854.
78. Spectrochemical Analysis of Pure Substances, K.H.I. Zil'bershtein, Book Review by P.J. Stang, J. Am. Chem. Soc., **1982**, 104, 6482.
79. R Triflic Acid and its Derivatives, P.J. Stang, M. White, Aldrichimica Acta **1983**, 16, 15-22.
80. R Properties and Reactions of Unsaturated Carbenes, P.J. Stang, Pure and Appl. Chem. **1983**, 55, 369-374.
81. P Structures of Dication Ethers. Crystal and Molecular Structure of Bis(1,3-dimethyl-2-imidazolium) Ether Ditriflate and Bis[1,2-Bis(Dimethylamino)-3-cyclopropenylium]Ether Ditriflate, G. Maas, P.J. Stang, J. Org. Chem. **1983**, 48, 3038-3043.
82. P Transition-State Geometries and Stereoselectivity of Alkylidenecarbene Addition to Olefins. An Experimental and Theoretical Investigation, Y. Apeloig, M. Karni, P.J. Stang, D.P. Fox, J. Am. Chem. Soc. **1983**, 105, 4781-4792.

PETER STANG – VITA

83. **P** Cumulenes as Ligands. Synthesis and Properties of π -Complexes of Substituted Butatrienes with Rhodium. X-ray Crystal Structure of Bis(triphenylphosphine)chloro[1,1,2,2-tetramethyl-3-(3-methyl-1,2-butadienylidene)cyclopropane]rhodium, P.J. Stang, M.R. White, G. Maas, Organometallics, **1983**, 2, 720-725.
84. **P** Cumulenes as Ligands. Heterobimetallic η^2 -Butatriene Complexes Containing both a Main Group Metal and Rhodium, M.R. White, P.J. Stang, Organometallics **1983**, 2, 1382-1385.
85. **P** Mild Generation of Alkylidenecarbenes from Tosylazoalkenes and Silylvinyl Triflates. Mode of Decomposition and Nature of the Carbene Intermediates, D.P. Fox, J.A. Bjork, P.J. Stang, J. Org. Chem. **1983**, 48, 3994-4002.
86. The Infra-Red Spectra of Complex Molecules, Vol. 2, 2nd Ed., L.J. Bellamy, Book Review by P.J. Stang, J. Am. Chem. Soc. **1983**, 105, 4502.
87. **P**. Cumulenes as Ligands (η^2 -Butatriene)platinum(O) Complexes, a New Structural Class of Cumulene Complexes, M.R. White, P.J. Stang, Organometallics **1983**, 2, 1654-1658.
88. Annual Reports on NMR Spectroscopy, Vol. 12, G.A. Webb, Ed., Book Review by P.J. Stang, J. Am. Chem. Soc. **1983**, 105, 6771.
89. **C** FAB-MS of Non-volatile Organometallic Compounds. Rhodium, Iridium, and Platinum Organometallic Complexes Containing a Cumulene Ligand, T.R. Sharp, M.R. White, J.F. Davis, P.J. Stang, 31st Ann. Conf. Mass Spectrom. Allied Topics **1983**, pp. 371-372.
90. **R** Exploring Carbene Chemistry via Novel Unsaturated Intermediates, P.J. Stang, Industrial Chemical News **1983**, Vol. 4, No. 8, 30.
- 1984-1988**
91. **C** Reaction of Unsaturated Carbenes with Metal-Metal Bonds. Insertion Reactions with Se-Se and Te-Te Bonds, P.J. Stang, K.A. Roberts, L.E. Lynch, J. Org. Chem. **1984**, 49, 1653-1654.
92. **P** Fast Atom Bombardment Mass Spectrometry of Nonvolatile Organometallic Compounds. Rhodium, Iridium and Platinum Complexes Containing a Cumulene Ligand, T.R. Sharp, M.R. White, J.F. Davis, P.J. Stang, Org. Mass Spectrom. **1984**, 19, 107-112.
93. **C** Kinetic Deuterium Isotope Effects in the Reaction of Vaska's Compound, $(\text{Ph}_3\text{P})_2\text{Ir}(\text{CO})\text{Cl}$, with CH_3I and $\text{CH}_3\text{OSO}_2\text{CF}_3$, P.J. Stang, M.D. Schiavelli, H.K. Chenault, J.L. Breidegam, Organometallics **1984**, 3, 1133-1134.
94. **P** Preparation of 2(H)-Indazoles and Tetrahydrotetrazoles via the Interaction of an Alkylidenecarbene with Azoarenes, K. Krageloh, G.H. Anderson, P.J. Stang, J. Am. Chem. Soc. **1984**, 106, 6015-6021.
95. **P** Solvolysis of Ethenoanthracenyl Triflates. Novel Stabilized Cyclic Vinyl Cations, M. Ladika, P.J. Stang, M.D. Schiavelli, M.H. Kowalski, J. Am. Chem. Soc. **1984**, 106, 6372-6375.
96. **C** Reaction of Pyridine N-Oxides with Triflic Anhydride: Formation of N-Sulfonyloxy and Dipyridinium Ether Salts, Z.C. Chen, P.J. Stang, Tetrahedron Lett. **1984**, 25, 3923-3926.
97. **C** Synthesis and Spectral Characterization of Methylene-cyclopropane Derivatives, B. Halton, C.J. Randall and P.J. Stang, J. Am. Chem. Soc. **1984**, 106, 6108-6110.
98. **P** Application of the Peterson Olefination to the Preparation of Substituted Triafulvenes from Methoxycyclopropenyl Triflates, H.H. Schubert, P.J. Stang, J. Org. Chem. **1984**, 49, 5087-5090.

PETER STANG – VITA

- 99.** C Reaction of Enyne Triflates with Nucleophiles, P.J. Stang, V. Dixit, Tetrahedron Lett. **1985**, 26, 2301-2304.
- 100.C** Alkynyl Sulfonate Esters, Preparation and Characterization of Acetylenic Tosylates $RC\equiv COTs$, P.J. Stang, B.W. Surber, J. Am. Chem. Soc. **1985**, 107, 1452-1453.
- 101.P** The Preparation of Unsymmetrical Diacetylenes from Alkenynyl Triflates, P.J. Stang, V. Dixit, Synthesis, **1985**, 10, 962-964.
- 102.P** Remote Deuterium Isotope Effects in the Solvolysis of Ethynyl and Butadiynylvinyl Triflates, M. Ladika, M.D. Schiavelli, M.H. Kowalski, P.J. Stang, J. Org. Chem. **1985**, 50, 4397-4399.
- 103.** Allenes in Organic Synthesis, H.E. Schuster, G.M. Coppola, Book Review by P.J. Stang, Organometallics, **1985**, 4, 1147.
- 104.P** Stereoselectivity of Alkylidenecarbene Addition to Olefins. 2. Effect of Orbital Polarization in the Alkenes, D.P. Fox, P.J. Stang, Y. Apeloig, M. Karni, J. Am. Chem. Soc., **1986**, 108, 750-756.
- 105.P** Electrochemical Oxidation and Reduction of a Substituted Alkylidene-cyclopropanaphthalene, K. Ashley, J.K. Foley, Q. Mei, J. Ghoroghchian, F. Sarfarazi, J. Cassidy, B. Halton, P.J. Stang, S. Pons, J. Org. Chem., **1986**, 51, 2089-2092.
- 106.P** Cycloproparenes: Synthesis, Structure, and Spectral Properties of Alkylidenecycloproparenes, B. Halton, C.J. Randall, G.J. Gainsford, P.J. Stang, J. Am. Chem. Soc., **1986**, 108, 5949-5956.
- 107.C** Stable, Four Coordinate, σ -Vinyl Pt(II) Complexes, M.H. Kowalski, P.J. Stang, Organometallics, **1986**, 5, 2392-2395.
- 108.C** Generation and Trapping of Alkynolates from Alkynyl Tosylates: Formation of Siloxyalkynes and Ketenes, P.J. Stang, K.A. Roberts, J. Am. Chem. Soc., **1986**, 108, 7125-7127.
- 109.C** Acetylenic Esters. Preparation and Characterization of Hitherto Unknown Alkynyl Carboxylate, $RC\equiv COCOR'$, and Alkynyl Phosphate, $RC\equiv COPO(OR')_2$, Esters, P.J. Stang, M. Boehshar, J. Lin, J. Am. Chem. Soc., **1986**, 108, 7832-7834.
- 110.C** Benzocalicenes and Benzotriaheptafulvalenes from Cycloproparenes, B. Halton, S.J. Buckland, Q. Mei, P.J. Stang, Tetrahedron Lett., **1986**, 27, 5159-5160.
- 111.C** The Selectivity of Isopropylidenecarbene, Y. Apeloig, M. Karni, S.B. Christensen, P.J. Stang, Tetrahedron Lett., **1986**, 27, 6115-6118.
- 112.P** Acetylenic Esters. Preparation and Mechanism of Formation of Alkynyl Tosylates and Mesylates via Tricoordinate Iodonium Species, P.J. Stang, B.W. Surber, Z.C. Chen, K.A. Roberts, A.G. Anderson, J. Am. Chem. Soc., **1987**, 109, 228-235.
- 113.P** X-Ray Structure Determination and Mechanism of Formation of Two Unique Cumulene Cyclodimers, M. Kaftory, I. Agmon, M. Ladika, P.J. Stang, J. Am. Chem. Soc., **1987**, 109, 782-787.
- 114.P** Kinetics, Stereochemistry and Mechanism of Interaction of Vaska's Complex with Ethynylvinyl Triflates. Formation of Novel σ -Butatrienyl-Iridium-Compounds, P.J. Stang, V. Dixit, M.D. Schiavelli, P. Drees, J. Am. Chem. Soc. **1987**, 109, 1150.

PETER STANG – VITA

- 115.P** Electrochemical and Spectroelectrochemical Study of Substituted Alkylidene-cyclopropabenzene: 1-(diphenylmethylene)cyclopropabenzene in the First Anodic and Cathodic Voltammetric Waves in Acetonitrile, K. Ashley, F. Sarfarazi, S.J. Buckland, J.K. Foley, Q. Mei, B. Halton, P.J. Stang, S. Pons, Can. J. Chem., **1987**, 65, 2062-2068.
- 116.C** Fast Atom Bombardment Mass Spectral Observations on New Cationic Vinyl Organoplatinum and Related Complexes, M.H. Kowalski, T.R. Sharp, P.J. Stang, Org. Mass. Spectrom., **1987**, 22, 642-643.
- 117.P** Studies in the Cycloproparene Series: Reactions of Alkylidenecycloproparenes with Electrophiles, S.J. Buckland, B. Halton, Q. Mei, P.J. Stang, Aust. J. Chem., **1987**, 40, 1375-1387.
- 118.C** Stereochemistry and Mode of Intermolecular Si-H Unsaturated Carbene Insertions, P.J. Stang, A.E. Learned, J. Am. Chem. Soc., **1987**, 109, 5019-5020.
- 119.C** Polyvalent Iodine in Synthesis. 1. An Efficient Route to Isopropylidene Arylmalonates (5-Aryl Substituted Meldrum's Acid), Z.C. Chen, Y.Y. Jin, P.J. Stang, J. Org. Chem., **1987**, 52, 4115-4117.
- 120.C** Polyvalent Iodine in Synthesis. 2. A New Method for the Preparation of Aryl Esters of Dithiocarbamic Acids, Z.C. Chen, Y.Y. Jin, P.J. Stang, J. Org. Chem., **1987**, 52, 4117.
- 121.P** Electrophilic Additions to Alkynyl Tosylates. Formation of Vinyl 1,1-(Bis-esters and Related Compounds. X-ray Structure Determination of (*E*)-1-Chloro-1-(tosyloxy)-3,3-dimethyl-1-butene, P.J. Stang, K.A. Roberts, J. Org. Chem., **1987**, 52, 5213-5217.
- 122.R** Alkylidenecycloproparenes and Related Chemistry, B. Halton, P.J. Stang, Acc. Chem. Res., **1987**, 20, 443-448.
- 123.C** Crystal Structure of a Novel Tricoordinate Vinyliodine Species and Evidence for an Alkylidenecarbene-Iodonium Ylide, P.J. Stang, H. Wingert, A.M. Arif, J. Am. Chem. Soc., **1987**, 109, 7235-7236.
- 124.C** Stereoselective Formation of Conjugated Enynes via Coupling of Alkynliodonium Tosylates and Vinylcopper Reagents, P.J. Stang, T. Kitamura, J. Am. Chem. Soc., **1987**, 109, 7561-7563.
- 125.C** Generation and Trapping of an Alkatrienylidenecarbene, P.J. Stang, A. E. Learned, J. Chem. Soc. Chem. Commun., **1988**, 301-302.
- 126.C** Hydrolysis Mechanisms of Alkynyl Benzoates, Tosylates, and Phosphates, A. D. Allen, K.A. Roberts, T. Kitamura, P.J. Stang, T.T. Tidwell, J. Am. Chem. Soc., **1988**, 110, 622-624.
- 127.P** The He(I) Photoelectron Spectrum of Methylene-cyclopropene Derivatives Correlation with Electrochemical Oxidation, T. Koenig, T. Curtiss, R. Winter, K. Ashley, Q. Mei, P.J. Stang, S. Pons, S.J. Buckland, B. Halton, D. Rolison, J. Org. Chem. **1988**, 53 3735-3738.
- 128.P** Acetylenic Esters. Preparation and Characterization of Alkynyl Carboxylates via Polyvalent Iodonium Species, P.J. Stang, M. Boehshar, H. Wingert, T. Kitamura, J. Am. Chem. Soc., **1988**, 110, 3272-3278.
- 129.P** Studies in the Cycloproparene Series: The Behavior of Alkylidenecycloproparenes Towards Nucleophiles and Oxidizing Agents, S.J. Buckland, B. Halton, P.J. Stang, Aust. J. Chem., **1988**, 41, 845-854.
- 130.C** Generation, Trapping and Fate of Alkylidenecarbene-Iodonium Ylides from the Addition of NaN₃ to Alkynylphenyliodonium Tosylates, T. Kitamura, P.J. Stang, Tetrahedron Lett., **1988**, 29, 1887-1890.

- 131.P** Studies in the Cycloproparene Series: On the Polarity of Alkylidenecycloproparenes, B. Halton, S.J. Buckland, Q. Lu, Q Mei, P.J. Stang, J. Org. Chem., **1988**, 53, 2418-2422.
- 132.C** Improved Synthesis of Alkynylphenyliodonium Arysulfonates, (RC≡CIPh•OSO₂Ar), T. Kitamura, P.J. Stang, J. Org. Chem., **1988**, 53, 4105-4106.
- 133.C** Ambiphilicity of the Cycloproparenyl Moiety, B. Halton, Q. Lu, P.J. Stang, J. Chem. Soc. Chem. Commun., **1988**, 879-880.
- 134.C** X-ray Structure of a Novel [4]radialene from the Cyclodimerization of an Unsaturated Carbene Derived Pentatetraene, A.E. Learned, A.M. Arif, P.J. Stang, J. Org. Chem., **1988**, 53, 3122-3123.
- 135.C** Mixed σ-Alkynyl-σ-Vinyl Bis(triphenylphosphine) platinum Complexes Via a Labile σ-Vinyl Platinum Triflate Precursor, M.H. Kowalski, A.M. Arif, P.J. Stang, Organometallics, **1988**, 7, 1227-1229.
- 136.R** Unsaturated Carbenes, P.J. Stang, Methoden der Organischen Chemie, Houben-Weyl, 4th Ed., Vol. E19, Thieme Verlag Stuttgart **1988**, 84.
- 137.P** Preparation of Vinyl Trifluoromethanesulfonates: 3-Methyl-2-Buten-2-yl Triflate, P.J. Stang, T.E. Dueber, Org. Syn. Coll., Vol. **6** **1988**, 757.
- 1989-1993**
- 138.P** Interaction of the (Dimethylglyoximato)(pyridine)cobalt Anion, [Co(dmgH)₂py]⁻, with Vinyl Triflates. Stereochemistry and Mechanism of Formation of Vinyl Cobaloxime Complexes, P.J. Stang, A.K. Datta, J. Am. Chem. Soc., **1989**, 111, 1358-1363.
- 139.P** Acetylenic Esters. Preparation and Characterization of Alkynyl Dialkyl Phosphates, RC≡COPO (OR')₂. P.J. Stang, T. Kitamura, M. Boehshar, H. Wingert, J. Am. Chem. Soc., **1989**, 111, 2225-2230.
- 140.P** Formation of (σ-Butatrienyl)- and (σ-Enynyl)cobaloxime Complexes Via Reaction of (Dimethylglyoximato)pyridine)cobalt Anion, [Co(dmgH)₂py]⁻, with Alkynylvinyl Triflates. Stereochemistry and Mechanism of Formation, P.J. Stang, A.K. Datta, V. Dixit, L.G. Wikstrand, Organometallics, **1989**, 8, 1020-1023.
- 141.P** Interaction of (Ph₃P)₄Pt with Alkynylvinyl Triflates: Stereochemistry and Mechanism of Formation of σ-Enynyl and σ-Butatrienyl Cationic Platinum(II) Complexes, P.J. Stang, A.K. Datta, Organometallics, **1989**, 8, 1024-1029.
- 142.P** On the Mechanism of the Metal Mediated Vinylic Cross Coupling Reactions I. Oxidative Addition: The Reaction of Vinyl Triflates with Zerovalent Platinum. Kinetics, Stereochemistry and Molecular Structure, P.J. Stang, M.H. Kowalski, M.D. Schiavelli, D. Longford, J. Am. Chem. Soc., **1989**, 111, 3347-3356.
- 143.P** On the Mechanism of the Metal Mediated Vinylic Cross Coupling Reactions 2. Reductive Elimination: Preparation, Molecular Structure and Thermal Chemistry of (σ-Alkynyl)(σ-vinyl)platinum(II) Complexes, P.J. Stang, M.H. Kowalski, J. Am. Chem. Soc., **1989**, 111, 3356-3362.
- 144.C** Axial Chirality by Asymmetric Induction. Diastereomeric Allene Formation Via Silicon as a Chiral Auxiliary, P.J. Stang, A.E. Learned, J. Org. Chem., **1989**, 54, 1779-1781.
- 145.C** A Simple Highly Stereospecific Preparation of Vinylphosphonium Salts: Palladium Catalyzed Vinylation of Triphenylphosphine via Vinyl Triflates, M.H. Kowalski, R.J. Hinkle, P.J. Stang, J. Org. Chem. **1989**, 54, 2783-2784.

- 146.C** The Interaction of Alkynyl Carboxylates with Serine Enzymes. A Potent New Class of Serine Enzyme Inhibitors, D. Segal, Y. Shalitin, H. Wingert, T. Kitamura, P.J. Stang, FEBS. Letters, **1989**, 247, 217-220.
- 147.P** Comparative Substituent Effects of Tosyloxy, Benzoyloxy, and Phosphoryloxy Substituents in Carbocation Formation. Acid- Catalyzed Hydration of Vinyl Tosylates, Benzoates, and 1,1- Ditosylates, R.A. Cox, M. McAllister, K.A. Roberts, P.J. Stang, T.T. Tidwell, J. Org. Chem., **1989**, 54, 4899-4902.
- 148.** Iodonium Salt Explosions, P.J. Stang, Chem. and Eng. News, **1989**, 67, (#34) 4.
- 149.P** A Single Crystal Molecular Structure Determination and Theoretical Calculations on Alkynyl Carboxylate Esters, P.J. Stang, T. Kitamura, A.M. Arif, M. Karni, Y. Apeloig, J. Am. Chem. Soc., **1990**, 112, 374-381.
- 150.P** Ligand Substitution Reactions of Cationic σ -Vinylplatinum(II) Triflate Species. Single Crystal Molecular Structure of *trans*(CH₃)₂C=CHPt(PPh₃)₂I, P.J. Stang, M.H. Kowalski, Z. Zhong, Organometallics, **1990**, 9, 833-838.
- 151.C** Ethynyl(phenyl)iodonium Triflate, [HC≡CPh][OSO₂CF₃]: Preparation, Spectral Properties, Mechanism of Formation and X-Ray Molecular Structure, P.J. Stang, A.M. Arif, C.M. Crittall, Angew. Chemie Int. Ed. English **1990**, 29, 287-288.
- 152.P** Electrochemical and Photoelectronic Spectral Study of Compounds with High Ionization Potentials: Anodic Oxidation of Vinyl Triflates in Aprotic Solvents, M.H. Kowalski, J.W. Pons, P.J. Stang, S. Pons, N.H. Werstiuk, K. Ashley, J. Phys. Org. Chem., **1990**, 3, 670-676.
- 153.C** Stereoselective Anti-Addition of PhIO TfOH to Terminal Alkynes. Preparation of E-(β -Trifluoromethanesulfonyloxyvinyl)-Iodonium Triflates, T. Kitamura, R. Furuki, H. Taniguchi, P.J. Stang, Tetrahedron Lett., **1990**, 31, 703-704.
- 154.C** A Variant of Peterson Olefination: Nitrophenyl-Substituted Methylene cyclopropa[*b*]naphthalenes, B. Halton, Q. Lu, P.J. Stang, Aust. J. Chem., **1990**, 43, 1277-1282.
- 155.P** Studies in the Cyclopropene Series: ¹³C NMR Correlations for Alkylidenecyclopropenes, B. Halton, Q. Lu, P.J. Stang, J. Org. Chem., **1990**, 55, 3056-3060.
- 156.P** Metallacyclobutanes from Cyclopropa[*b*]naphthalene: Reactions with Rhodium(I), Platinum(O) and Palladium(O), P.J. Stang, L. Song, B. Halton, J. Organomet. Chem., **1990**, 388, 215-220.
- 157.P** Organometallic Complexes of Alkylidenecyclopropenes: Reactions with Rhodium(I) and Platinum(O) Reagents, P.J. Stang, L. Song, Q. Lu, B. Halton, Organometallics, **1990**, 9, 2149-2154.
- 158.C** Introduction of the Halonitromethyl Framework into Aromatic Rings via a XeF₂ Mediated Radical Process, A.S. Koz'Min, V.K. Brel, I.V. Martynov, V.I. Uvarov, N.S. Zefirov, V.V. Zhdankin, P.J. Stang, Tetrahedron Lett., **1990**, 31, 4799-4800.
- 159.C** Mild Palladium-Catalysed Carbonylation of Alkynylphenyliodonium Toluene-*p*-sulfonates under Carbon Monoxide at Atmospheric Pressure, T. Kitamura, I. Mihara, H. Taniguchi, P.J. Stang, J. Chem. Soc. Chem. Commun., **1990**, 614-615.

- 160.C** "Ten-electron Reagents", Derivatives of Iodone(III), Xenon(II), Selenium(IV) and Tellurium(IV) in Organic Synthesis, V.K. Brel, A.A. Gakh, V.V. Zhdankin, N.S. Zefirov, A.S. Koz'min, A.K. Korkin, T.G. Kutateladze, R. Capel, S.A. Lermontov, I.G. Plokhikh, S.O. Safronov, P.J. Stang, N.G. Chovnikova, Dokl. Akad. Sci. SSSR, **1990**, 313, 1131.
- 161.C** Fluoroxenonium Derivatives as Reagents for the Functionalization of Olefins to give β -Fluoroalkyl Triflates, β -Fluoroalkyl Fluorosulfates and β -Fluoroalkyltrates, N.S. Zefirov, V.V. Zhdankin, A.A. Gakh, P.J. Stang, Izv. Akad. Nauk. SSSR. Ser. Khim., **1990**, 1196-1197.
- 162.C** (α -Alkoxy carbonyl)(α -Vinyl)bis(triphenylphosphine)platinum(II) Complexes, Possible Models for the Metal-Catalyzed Carbalkoxylation of Electrophilic Substrates, Z. Zhong, P.J. Stang, A.M. Arif, Organometallics, **1990**, 9, 1703-1706.
- 163.C** Metal Promoted Binuclear C-H Activation of Ethylene and Formation of a Novel Heterobimetallic Ir-Pt Complex. X-ray Crystal Structure of $[(\text{Ph}_3\text{P})_2(\text{CO})\text{Ir}(\mu\text{-H})(\mu\mu\text{-}\eta^2\text{:}\eta^1\text{-CH=CH}_2)\text{Pt}(\text{PPh}_3)_2]^+\text{CF}_3\text{SO}$, Y.-H. Huang, P.J. Stang, A.M. Arif, J. Am. Chem. Soc., **1990**, 112, 5648-5649.
- 164.P** Cumulenes as Ligands. Rhodium and Platinum Complexes of Tetraphenylhexapentaene. X-ray Crystal Structure of Bis(triphenylphosphine)chloro(tetraphenylhexapentaene)rhodium, L. Song, A.M. Arif, P.J. Stang, J. Organomet. Chem., **1990**, 395, 219-226.
- 165.P** Vinylphosphonium Salts. Stereoselective Palladium-Catalyzed Vinylation of Triphenylphosphine with Vinyl Triflates, R.J. Hinkle, P.J. Stang, M.H. Kowalski, J. Org. Chem., **1990**, 55, 5033-5036.
- 166.P** Cyclization of Alkynyl Benzoates and Generation of Dioxolenylium Ions, A.D. Allen, T. Kitamura, R.A. McClelland, P.J. Stang, T.T. Tidwell, J. Am. Chem. Soc., **1990**, 112, 8873-8878.
- 167.C** Cycloadditions of Alkynyl Esters and Ethers with 1,2,3-Tri-*t*-butyl Azete, G. Maas, M. Regitz, R. Rahm, J. Schneider, P.J. Stang, C.M. Crittall, J. Chem. Soc. Chem. Commun., **1990**, 1456-1457.
- 168.P** Interaction of Rhodium(I) with Cyclopropenones: Decarbonylation and Formation of 1-Rhodacyclopentene-2,5-diones and Cationic Oxygen α -Bound Cyclopropenone Complexes. X-ray Crystal Structure of trans-Carbonylbis(triphenylphosphine)(di-*tert*-butylcyclopropenone)rhodium Trifluoromethanesulfonate, L. Song, A.M. Arif, P.J. Stang, Organometallics, **1990**, 9, 2792-2797.
- 169.C** A General Approach to Unsymmetrical Tricoordinate Iodinanes: Single Step Preparation of Mixed Iodosobenzene Sulfonates, $\text{PhI}(\text{X})\text{OSO}_2\text{R}$, Via Reaction of Iodosobenzene with Me_3SiX , V.V. Zhdankin, C.M. Crittall, P.J. Stang, N.S. Zefirov, Tetrahedron Lett., **1990**, 31, 4821-4824.
- 170.C** Xenon Fluorosulfonates and Their Ad_E -Reactions with Olefins, V.K. Brel, A.S. Koz'min, V.I. Uvarov, N.S. Zefirov, V.V. Zhdankin, P.J. Stang, Tetrahedron Lett., **1990**, 31, 5225-5226.
- 171.C** Alkynylation of Organometallic Systems. A New Simple Method for the Introduction of Terminal Acetylides: Formation of Rhodium(III) and Iridium(III) σ -Acetylide Complexes, P.J. Stang, C.M. Crittall, Organometallics, **1990**, 9, 3191-3193.
- 172.C** Bis[phenyl[(perfluoroalkanesulfonyloxy)iido]acetylene, $\text{PhI}^+\equiv\text{CI}^+\text{Ph } 2\text{R}_F\text{SO}_3^-$, and 1,4-Bis[Phenyl(perfluoroalkanesulfonyl oxy)iido]-1,3-butadiene, $\text{PHIC}\equiv\text{C}-\text{C}\equiv\text{CIPh}\cdot 2\text{R}_F\text{SO}_3^-$, P.J. Stang, V.V. Zhdankin, J. Am. Chem. Soc. **1990**, 112, 6437-6438.

- 173.P** Interaction of Fluoroxenonium Triflate, Fluorosulfate and Nitrate with Alkenes. Stereochemical Evidence for the Electrophilic Noble Gas Cation Addition to the Carbon-Carbon Double Bond, N.S. Zefirov, A.A. Gakh, V.V. Zhdankin, P.J. Stang, J. Org. Chem., **1991**, 56, 1416-1418.
- 174.P** Synthesis of Alkynyl(phenyl)iodonium Triflates and Their Reaction with Diethyl 2-Aminomalonate, M.D. Bachi, N. Bar-Ner, C.M. Crittall, P.J. Stang, B.L. Williamson, J. Org. Chem. **1991**, 56, 3912-3915.
- 175.C** Formation and Characterization of Simple Stable Coordinated Water Complexes of Rhodium and Iridium. The Crystal Structure of *trans*- [Rh(PPh₃)₂(CO)(H₂O)]⁺CF₃SO₃⁻, P.J. Stang, Y.-H. Huang, L. Song, A.M. Arif, J. Organomet. Chem., **1991**, 405, 403-406.
- 176.C** (Dicyanoiodo)benzene - A Stable Tricoordinate Iodine(III) Compound with Three Carbon Ligands, V.V. Zhdankin, R. Tykwinski, B.L. Williamson, P.J. Stang, N.S. Zefirov, Tetrahedron Lett., **1991**, 32, 733-734.
- 177.P** Preparation and Chemistry of PhI⁺ C≡C⁻Ph⁻OTf, Bis[Phenyl]([(trifluoromethyl)sulfonyl]oxy]iodo]acetylene, a Novel Difunctional Acetylene, Bis(iodonium) Species and a Stable C₂-transfer Agent, P.J. Stang, V.V. Zhdankin, J. Am. Chem. Soc., **1991**, 113, 4571-4576.
- 178.P** Reaction of E-1,2-Bis[triphenyl-(trifluoromethanesulfonyloxy)-phospho] Ethylene, Ph₃PCH=CHPPh₃·2OTf, with Bases: Unusual Products and Evidence for C₂-diylide, Ph₃P=C=C=PPh₃ Formation, P.J. Stang, A.M. Arif, V.V. Zhdankin, Tetrahedron **1991**, 47, 4539-4546.
- 179.P** Novel Synthesis of η³-Allyl Platinum(II) Complexes from Enol Triflates and Simple Olefins and Their Regiospecific Deprotonation, Z. Zhong, R.J. Hinkle, A.M. Arif, P.J. Stang, J. Am. Chem. Soc. **1991**, 113, 6196-6202.
- 180.C** Base-Catalyzed Hydrogen Exchange and Estimates of the Acid Strength of Benzoyl- and (Trimethylsilyl)acetylene in Aqueous Solution A Correlation Between Acetylene pK_a Estimates and Hydroxide-Ion Catalytic Coefficients for Hydrogen Exchange, A.J. Kresge, P. Pruszynski, P.J. Stang, B.L. Williamson, J. Org. Chem. **1991**, 56, 4808-4811.
- 181.P** Generation and Fate of 1-Dewar-pyridin-3-olates and -2-olates. Synthesis of 1-Dewar-pyridin-3-ones, G. Maas, R. Rahm, F. Krebs, M. Regitz, P.J. Stang, C.M. Crittall, Chem. Ber. **1991**, 124, 1661-1665.
- 182.P** Single-Crystal Molecular Structure Determinations and Theoretical Calculations on Alkynyl Sulfonate and Carboxylate Esters, P.J. Stang, C.M. Crittall, A.M. Arif, M. Karni, Y. Apeloig, J. Am. Chem. Soc. **1991**, 113, 7461-7470.
- 183.C** Preparation of Functionalized Alkynyl(phenyl)iodonium Salts via a Novel Iodonium-Transfer Process between Alkynylstannanes and PhI⁺CN⁻OTf, P.J. Stang, V.V. Zhdankin, B.L. Williamson, J. Am. Chem. Soc. **1991**, 113, 5870-5871.
- 184.P** Ready Formation of Stable Cationic Rh(I) Complexes of MeCN, Formamide, Urea and Related Species via Replacement of the Triflate in *trans*-(Ph₃P)₂Rh(CO)(OTf), L. Song, P.J. Stang, Inorg. Chim. Acta. **1991**, 188(1), 107-111.
- 185.P** Alkynyl(phenyl)iodonium Tosylates: Preparation and Stereospecific Coupling with Vinylcopper Reagents. Formation of Conjugated Enynes. 1-Hexynyl(phenyl)iodonium Tosylate and (E)-5-Phenyldodec- 5-en- 7-yne, P.J. Stang, T. Kitamura, Org. Syn. **1991**, 70, 215-225.

PETER STANG – VITA

- 186.C** Mechanism-Based Inactivation of a Bacterial Phosphotriesterase by an Alkynyl Phosphate Ester, J.N. Blenkenship, H. Abu-Soud, W.A. Francisco, F.M. Raushel, D.R. Fischer, P.J. Stang, J. Am. Chem. Soc. **1991**, 113, 8560-8561.
- 187.R** Alkynyl Carboxylate, Phosphate and Sulfonate Esters, P.J. Stang, Acc. Chem. Res. **1991**, 24, 304-310.
- 188.C** Preparation and Molecular Structure Determination of Dialkynyliodonium Salts: $(RC\equiv C)_2I^+\bar{O}Tf$. P.J. Stang, V.V. Zhdankin, A.M. Arif, J. Am. Chem. Soc. **1991**, 113, 8997-8998.
- 189.P** Novel Classes of Alkynyliodonium Salts and Their Applications: The Synthesis of Substituted 1,3-Diynyliodonium Triflates, $R-C\equiv C-C\equiv C-I^+Ph\bar{O}Tf$, and Their Reaction with Triphenylphosphine, P.J. Stang, J. Ullmann, Synthesis **1991**, 1073-1075.
- 190.C** Synthesis of Ethenyl(phenyl)iodonium Triflate, $[H_2C=CHPh][OSO_2CF_3]$, and Its Application as a Parent Vinyl Cation Equivalent, P.J. Stang, J. Ullmann, Angew. Chem. Int. Ed. Engl. **1991**, 30, 1469-1470.
- 191.P** $1\lambda^5,3\lambda^5$ -Diphospholium Ions, A. Schmidpeter, P. Mayer, J. Stocker, K.A. Roberts, P.J. Stang, Heteroatom Chem. **1991**, 2, 569-573.
- 192.C** Selective Coupling Reactions of Alkynyl(phenyl)iodonium Tosylates with Alkynylcopper Reagents, T. Kitamura, T. Tanaka, H. Taniguchi, P.J. Stang, J. Chem.Soc. Perkin, Trans.I., **1991**, 2892-2893.
- 193.C** Iodosyl Trifluoromethanesulfonate-An Efficient Reagent for the Single Step Preparation of Diaryl Iodonium Triflate Salts, P.J. Stang, V.V. Zhdankin, R. Tykwinski, N.S. Zefirov, Tetrahedron Lett. **1991**, 32, 7497-7498.
- 194.C** Activation of Iodosylbenzene with One Equivalent of Triflic (Trifluoromethanesulphonic) Anhydride. Novel Preparation of (p-Phenylene)bisiodonium Triflates, T. Kitamura, R. Furuki, H. Taniguchi, P.J. Stang Mendeleev Commun. **1991**, 148-149.
- 195.P** Synthesis, Characterization and Reaction Chemistry of New Trifluoromethanesulfonato Complexes of Rhodium and Iridium: Formation of Cationic Rh-Pt and IR-Pt Heterobinuclear Complexes with Bridging Chloride Ligands, P.J. Stang, Y.H. Huang, A.M. Arif, Organometallics **1992**, 11, 231-237.
- 196.C** Synthesis of Functionalized Alkynylstannanes. B.L. Williamson, P.J. Stang, Synlett **1992**, 199-200.
- 197.C** (Dicyano)iodonium Triflate-Novel Iodonium Species and a Versatile Reagent for the Preparation of Iodonium Salts via an Iodonium Transfer Reaction with Organostannanes, P.J. Stang, V.V. Zhdankin, R. Tykwinski, N.S. Zefirov, Tetrahedron Lett. **1992**, 33, 1419-1422.
- 198.P** Bis[phenyliodonium]Diyne Triflates: Preparation, Characterization and Reaction with Triphenylphosphine, P.J. Stang, R.Tykwinski, V.V. Zhdankin, J. Org. Chem. **1992**, 57, 1861-1864.
- 199.R** Alkynyl and Alkenyl(phenyl)iodonium Compounds, P.J. Stang, Angew. Chem. Int. Ed. Engl. **1992**, 31, 274-285.
- 200.P** Mechanism of the Metal Mediated Carbalkoxylation of Vinyl Electrophiles, 1. Preparation, Molecular Structure and Alcoholysis of Vinylic Acyl Platinum(II) Complexes, P.J. Stang, Z. Zhong, A. Arif, Organometallics **1992**, 11, 1017-1025.
- 201.P** Mechanism of the Metal Mediated Carbalkoxylation of Vinyl Electrophiles, 2. Preparation, Molecular Structure and Reductive Couplings of α -Alkoxy carbonyl σ -Vinyl Platinum(II) Complexes, P.J. Stang, Z. Zhong, Organometallics **1992**, 11, 1026-1033.

- 202.P** Synthesis, Characterization, and Reaction Chemistry of Novel Heterobimetallic Iridium-Platinum Complexes $[(PR_3)_2(CO)Ir(\mu-H)(\mu-(\eta^2:\eta^1-CH=CH_2))Pt(PR_2)_2]^+[OTf]^-$, P.J. Stang, Y.H. Huang, A.M. Arif, Organometallics **1992**, 11, 845-852.
- 203.C** Preparation, Spectral Identification and Chemical Reaction of Alkynyl Xenonium Tetrafluoroborates, $R-C\equiv C-Xe^+BF_4^-$: Novel Organoxenonium Species, Viktor V. Zhdankin, Peter J. Stang and Nikolai S. Zefirov, Chem. Comm. **1992**, 578-579.
- 204.P** Reactivity Studies of Square Planar Platinum, Iridium and Rhodium Triflate Complexes with Alkynols, P.J. Stang, Y.-H. Huang, J. Organomet. Chem. **1992**, 431, 247-254.
- 205.** Interaction of an Allene with Polyvalent Iodine Derivatives. Preparation, X-Ray Molecular Structure and Some Reactions of Phenyl (2,2-dimethyl-4-diethylphosphono)-2,5-dihydro-3-furyliodonium Salts. N.S. Zefirov, A.S. Koz'min, T. Kasumov, K.A. Potekhin, V. D. Sorokin, V.K. Brel, E.V. Abramkin, Y.T. Struchkov, V.V. Zhdankin, P.J. Stang, J. Org. Chem. **1992**, 57, 2433-2437.
- 206.P** Ligand Redistribution Reactions of Some Organometallic Rhodium and Iridium Complexes. P.J. Stang, Y.-H. Huang, J. Organomet. Chem. **1992**, 435, 185-192.
- 207.P** Preparation of bis(Heteroaryl)iodonium Salts via an Iodonium Transfer Reaction Between Di(Cyano)iodonium Triflate and Organostannes, P.J. Stang, R. Tykwinski, V.V. Zhdankin, J. Heterocyc. Chem. **1992**, 29, 815-818.
- 208.C** Single Step Preparation of Rigid-Rod, Cationic Bimetallic σ -Diyne Complexes: $L_5MC\equiv C-(C_6H_4)-C\equiv C L_5 \cdot 2\bar{O}Tf$, $M = Ir, Rh$, P.J. Stang, R. Tykwinski, J. Am.Chem Soc. **1992**, 114, 4411-4412.
- 209.C** A Simple High Yield Preparation of Alkynylphosphonium Triflates, :P.J. Stang, C.M. Crittell, J. Org. Chem. **1992**, 57, 4305-4306.
- 210.P** 1,3-Dipolar Cycloaddition of α -Diazocarbonyl Compounds, Organoazides and Ethynyl(phenyl)iodonium Triflate Salts. G. Maas, M. Regitz, U. Moll, R. Rahm, F. Krebs, R. Hector, P.J. Stang, C.M. Crittell, B.L. Williamson, Tetrahedron **1992**, 48, 3527-3540.
- 211.C** Synthesis of 1-Alkynyl Thiocyanates. D.R. Fischer, B.L. Williamson, P.J. Stang, Synlett **1992**, 535-536.
- 212.C** Synthesis and X-Ray Structure Determination of 1,4-Bis[Trimethylsilylethynyl(trifluoromethanesulfonyloxy)iodo]benzene, $Me_3SiC\equiv C(C_6H_4)IC\equiv CSiMe_3CF_3SO_3^-$, a Novel Alkynyliodonium Salt. P.J. Stang, V.V. Zhdankin, A.M. Arif, Mendeleev Commun. **1992**, 158-159.
- 213.C** 1,4-Bis(Iodoso)benzene - An Efficient Reagent for the Preparation of (*p*-Phenylene)bisiodonium Salts. P.J. Stang, V.V. Zhdankin, N.S. Zefirov, Mendeleev Commun. **1992**, 159-160.
- 214.C** Reactions of Bicycloalkenyldiiodonium Salts with Nucleophiles, P.J. Stang, A. Schwarz, T. Blume, V.V. Zhdankin, Tetrahedron Lett. **1992**, 33, 6759-6762.
- 215.P** Macrocyclic Square Planar Tetraalkynyl Tetraiodonium Salts: Structures, Stabilities and Vibrational Frequencies via *Ab Initio* Calculations, A.I. Boldyrev, V.V. Zhdankin, J.Simons, P.J. Stang, J. Am. Chem. Soc. **1992**, 114, 10569-10572.
- 216.P** Electrophilic Additions of Iodosylbenzene Activated by Trifluoromethanesulfonic Acid, $[PhIO-TfOH]$, to Alkynes, T. Kitamura, R. Furuki, H. Taniguchi, P.J. Stang, Tetrahedron **1992**, 48, 7149-7156.

- 217.C** An Improved Synthesis of Cyclopropa[4,5]benzocyclobutene (Rocketene), A.T. McNichols, P.J. Stang, Synlett **1992**, 971-972.
- 218.P** Preparation of (*p*-Phenylene)bis(aryliodonium)Ditriflates and their Double Substitution by some Nucleophiles, T. Kitamura, R. Furuki, K. Nagata, H. Taniguchi, P.J. Stang, J. Org. Chem. **1992**, 57, 6810-6814.
- 219.P** Synthesis of Eneidyne by Reaction of Bicycloalkenyldiiodonium Salts with Lithium Alkynyl-cuprates, P.J. Stang, T. Blume, V.V. Zhdankin, Synthesis **1993**, 1, 35-36.
- 220.R** Ynol Esters and Alkynyl(phenyl)Iodonium Chemistry, P.J. Stang, Izv. An SSSR, Ser. Khim. **1993**, 20; Russian Chemical Bulletin **1993**, 42, 12-23.
- 221.C** The Reaction of Norbornene with Selenium(II) and Selenium(IV) Fluorides, S.A. Lermontov, S.I. Zavorin, A.N. Pushkin, A.N. Chekhlov, N.S. Zefirov, P.J. Stang, Tetrahedron Lett. **1993**, 34, 703-706.
- 222.** The Organic Chemistry of Polycoordinated Iodine, A. Varvoglis, Book Review by P.J. Stang, Angew. Chem. Int. Ed. Engl. **1993**, 32, 1665.
- 223C** Reaction of Lithium Alkynolates with Acid Chlorides: A Conventional Approach to the Preparation of Ynol Esters, V.V. Zhdankin, P.J. Stang, Tetrahedron Lett. **1993**, 34, 1461-1462.
- 224.C** Rh(III)-Promoted Binuclear C-H Activation of π -Complexed Ethylene And Phenylacetylene and the Formation of Hydride Bridged Rh-Pt Heterobimetallic Complexes, P.J. Stang, D. Cao, Organometallics **1993**, 12, 996-997.
- 225.P** Preparation, Molecular Structure and Diels-Alder Cycloaddition Chemistry of β -Functionalized Alkynyl(phenyl)iodonium Salts, B.L. Williamson, P.J. Stang, A. Arif, J. Am. Chem. Soc. **1993**, 115, 2590-2597.
- 226.P** Functionalization of Diynes, Preparation of Bis(Alkynyl) Ditosylate and Dibenzoate Esters and Bis(Alkynyl) Dithiocyanates via Alkynyl Iodonium Chemistry, R. Tykwinski, P.J. Stang, Tetrahedron **1993**, 49, 3043-3052.
- 227.P** Vinylplatinum Carbenes, Nitriles, Platinaoxacyclic Complexes and Heck-Type Coupling Products Via Reaction of (σ -2-propenyl)(PPh₃)₂Platinum(II) Triflate With Alkynols, Nitriles and Acrylate Esters. Molecular Structure of [(PPh₃)₂PtCH₂CH₂C(O)OCH₃]⁺ · OTf, R.J. Hinkle, P.J. Stang, A.M. Arif, Organometallics **1993**, 12, 3510-3516.
- 228.C** Cycloaddition Reactions of Diarylalkylidencyclopropenes, A.T. McNichols, P.J. Stang, B. Halton, A. J. Kay, Tetrahedron Lett **1993**, 34, 3131-3134.
- 229.P** Tetracosphacubane Chemistry: Probing Phosphorus Reactivity by Protonation, Alkylation and Alkynylation; Formation of Novel Phosphonium Di- and Monocations in Superacid Media and Monocations with Super Electrophiles, K.K. Laali, M. Regitz, M. Birkel, P.J. Stang, C.M. Crittall, J. Org. Chem. **1993**, 58, 4105-4109.
- 230.P** 2-Hydroperfluoropropyl Azide-A Versatile Reagent for the Oxidative Fluorination of Organic Compounds of Trivalent Phosphorus, S.A. Lermontov, I.I. Sukhojenko, A.V. Popov, A.N. Pushkin, I.V. Martynov, N.S. Zefirov, P.J. Stang, Heteroatom Chem. **1993**, 4 579-585.
- 231.C** 1, ω -Perfluoroalkylation of Aromatics via Bis-Decarboxylation of Perfluorodicarboxylic Acids with XeF₂, V.K. Brel, V.I. Uvarov, P.J. Stang, R. Caple, N.S. Zefirov, J. Org. Chem. **1993**, 58, 6922-6923.
- 232.P** Iodosyl Fluorosulfate - a New Efficient Reagent for the Direct Synthesis of Diaryliodonium Salts, N.S. Zefirov, T.M. Kasumov, A.S. Koz'min, V. D. Sorokin, P.J. Stang, V.V. Zhdankin, Synthesis **1993**, 1209-1210.

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- 233.P** A New Synthesis of Alkynyl Sulfones and Single Crystal X-Ray Structure of *p*-(Tolylsulfonyl)ethyne, R.R. Tykwinski, B.L. Williamson, D.R. Fischer, P.J. Stang, A.M. Arif, J. Org. Chem. **1993**, 58, 5235-5237.
- 234.C** Preparation and Characterization of a Macrocyclic Tetraaryl Tetraiodonium Compound, cyclo-(Ar₄I₄)⁴⁺ 4X⁻. A Unique, Charged, Cationic Molecular Box, P.J. Stang, V.V. Zhdankin, J. Am. Chem. Soc. **1993**, 115, 9808-9809.
- 235.C** Diarylmethylenecyclopropabenzene in Cycloaddition, B. Halton, A. J. Kay, A.T. McNichols, P.J. Stang, Y. Apeloig, A.H. Maulitz, R. Boese, T. Haumann, Tetrahedron Lett. **1993**, 35, 6151-6154.
- 236.P** Highly Effective PQQ Inhibition by Alkynyl and Aryl Mono and Diiodonium Salts, P.M. Gallop, M.A. Paz, R. Flückiger, P.J. Stang, V.V. Zhdankin, R. Tykwinski, J. Am. Chem. Soc. **1993**, 115, 11702-11704.
- 237.C** Alkylidenecarbene Insertions into Aromatic C-H Bonds in Solution, R.R. Tykwinski, J. Whiteford, P.J. Stang, J. Chem. Soc. Chem. Commun. **1993**, 1800-1801.
- 238.C** A General Approach to Aryl(Cyano)iodonium Triflates - Versatile Iodonium Transfer Reagents, V.V. Zhdankin, M.C. Scheuller, P.J. Stang, Tetrahedron Lett. **1993**, 6853-6856.
- 239.C** Preparation of 1-Alkynyl Thiotosylates, B.L. Williamson, P. Murch, D.R. Fischer, P.J. Stang, Synlett **1993**, 858-860.
- 240.P** Interaction of (triphenylphosphine)₂PtC₂H₄ with Alkynyl(phenyl)iodonium Triflates. Formation of η³-Propargyl/Allenyl-Pt and σ-acetylide-Pt Complexes. Molecular Structure of [(Ph₃P)₂Pt(η³-CHCH₃CCBu-*t*)OSO₂CF₃], P.J. Stang, C.M. Crittall, A.M. Arif, Organometallics **1993**, 12, 4799-4804.
- 241.C** Palladium(II) and Copper(I) Cocatalyzed Coupling of Stereodefined Alkenyl(phenyl)iodonium Triflates and Unsaturated *Tr-n*-butylstannanes, R.J. Hinkle, G.T. Poulter, P.J. Stang, J. Am. Chem. Soc. **1993**, 115, 11626-11627.
- 242.C** Synthesis of Highly Functionalized β-Lactams. Alkynylation of 2-Oxoazetidin-1-yl Malonates, M.D. Bachi, N. Bar-Ner, P.J. Stang, B.L. Williamson, J. Org. Chem. **1993**, 58, 7923-7924.
- 1994-1998**
- 243.C** Preparation of Bis-Cyclopentene Ring Systems via Reaction of Bis-[phenyl(iodonium)]dyne Triflates with Soft Nucleophiles, R.R. Tykwinski, P.J. Stang, N.E. Persky, Tetrahedron Lett. **1994**, 35, 23-26.
- 244.R** Ynol Ethers and Esters, P.J. Stang, V.V. Zhdankin, in Patai, S. Ed., The Chemistry of Triple-Bonded Functional Groups, Supplement C2 **1994**, Ch. 19, pp. 1135-1164, J. Wiley and Sons, Chichester.
- 245.R** Alkynyl(phenyl)Iodonium and Related Species, P.J. Stang, in Patai, S. Ed., The Chemistry of Triple-Bonded Functional Group, Supplement C2 **1994**, Ch. 20, pp. 1165-1182, J. Wiley and Sons, Chichester.
- 246.P** A New Method for the Synthesis of Cyclopentenones via the Tandem Michael Addition-Carbene Insertion Reaction of β-Ketoethynyl(phenyl)iodonium Salts, B.L. Williamson, R.R. Tykwinski, P.J. Stang, J. Am. Chem. Soc., **1994**, 116, 93-98.
- 247.P** Stereospecific Synthesis of Trisubstituted Alkenyl(phenyl)iodonium Salts from Vinylstannanes, R.J. Hinkle, P.J. Stang, Synthesis **1994**, 313-316.

- 248.C** The Preparation of Exocyclic Functionalized Alkylidenecyclopropenes via a New Procedure, A.T. McNichols, P.J. Stang, D.M. Addington, B. Halton, Tetrahedron Lett. **1994**, 35, 437-440.
- 249.C** Fluorination of Phosphorus (+3) Derivatives by Xenon Difluoride, S.A. Lermontov, A.V. Popov, S.I. Zavorin, I.I. Sukhojenko, N.V. Kurgleva, I.V. Martynov, N.S. Zefirov, P.J. Stang, J. Fluor. Chem. **1994**, 66, 233-235.
- 250.** Molecular Orbital Calculations Using Chemical Graph Theory, J.R. Dias, Book Review by P.J. Stang, J. Am. Chem. Soc., **1994**, 116, 6994.
- 251.C** Transition Metal Based Cationic Molecular Boxes. Self-Assembly of Macrocyclic Platinum(II) and Palladium(II) Tetranuclear Complexes, P.J. Stang, D.H. Cao, J. Am. Chem. Soc., **1994**, 116, 4981-4982.
- 252.P** Preparation of Rigid-Rod, Di- and Trimetallic, σ -Acetylide Complexes of Iridium(III) and Rhodium(III) via Alkynyl(phenyl)iodonium Chemistry, R. Tykwinski, P.J. Stang, Organometallics **1994**, 13, 3203-3208.
- 253.C** Mixed, Neutral-Charged, Pt-Pt and Pt-Pd Macrocyclic Tetranuclear Complexes, P.J. Stang, J. A. Whiteford, Organometallics **1994**, 13, 3776-3777.
- 254.C** Alkenylsulfenylchlorides: Synthesis and A_{E2} Reactions of 2-Alkoxy-2-oxo-3-R-4-chlorothio-1,2-oxaphosphol-3-enes, I.V. Alabugin, V.K. Brel, A.N. Chekhov, N.S. Zefirov, P.J. Stang, Tetrahedron Lett. **1994**, 35, 8275-8278.
- 255.P** Push-Pull Ynamines via Alkynyliodonium Chemistry, P. Murch, B.L. Williamson, P.J. Stang, Synthesis **1994**, 1255-1256.
- 256.P** Triphenylbismuth Difluoride, A Novel Reagent for the Oxidative Fluorination of P(III), Se(II) and Sb(III) Compounds, S. A. Lermontov, I.M. Rakov, N.S. Zefirov, P.J. Stang, Phosphorus, Sulfur and Silicon **1994**, 92, 225-229.
- 257.R** Fluorinated Compounds as Reagents, P.J. Stang, V.V. Zhdankin, in Hudlicky, M. Pavlath, A. The Chemistry of Organic Fluorine Compounds II: A Critical Review, ACS Monograph Series **1995**, 187, Chapt. 6, pp. 939-978.
- 258.R.** Alkynyl Halides and Chalcogenides, P.J. Stang, V.V. Zhdankin in "Comprehensive Organic Functional Group Transformations," A.R. Katritzky, O. Meth-Cohn, C.W. Rees, Eds. Pergamon Press, Elsevier Science Ltd., Oxford, U.K., 1995, Vo.2, chapt.2.21, pp. 1011-1038.
- 259.P** Mechanism-Based Inactivation of Phosphotriesterase by Reaction of A Critical Histidine with a Ketene Intermediate, J.A. Banzon, J.M. Kuo, B. Miles, D.R. Fischer, P.J. Stang, F.M. Raushel, Biochemistry **1995**, 34, 743-749.
- 260.P** Histidine-254 Is Essential for the Inactivation of Phosphotriesterase with the Alkynyl Phosphate Esters and Diethyl Pyrocarbonate, J. A. Banzon, J.-M. Kuo, D.R. Fischer, P.J. Stang, F. M. Raushel, Biochemistry **1995**, 34, 750-754.
- 261.R** Alkynyliodonium Salts: Electrophilic Acetylene Equivalents, P.J. Stang in "Modern Acetylene Chemistry," P.J. Stang, F. Diederich, Eds., VCH Publishers, Weinheim, 1995.
- 262.C** Preparation and X-ray Crystal and Molecular Structure of $cis\text{-}[(dppp)Pd(H_2O)(OSO_2CF_3)]^+(\bar{O}SO_2CF_3)$ and $cis\text{-}[(dppp)Pd(H_2O_2)]^{2+} 2(\bar{O}SO_2CF_3)$. Coordinated Water Triflate Hydrogen Bonds, P.J. Stang, D.H. Cao, G.T. Poulter, A.M. Arif, Organometallics **1995**, 14, 1110-1114.

- 263.C** Hybrid Iodonium-Transition Metal Cationic Tetranuclear Macrocyclic Squares, P.J. Stang, K. Chen, J. Am. Chem. Soc. **1995**, 117, 1667-1668.
- 264.P** Iridium(III) and Rhodium(III) Promoted Binuclear C-H Bond Activation of π -Complexed Pt(0) Ethylene and Phenylacetylene and Formation of Heterobimetallic Complexes. X-ray Crystal Structures of $[\eta^5\text{-C}_5\text{Me}_5(\text{PMe}_3)\text{Ir}(\mu\text{-H})(\mu\text{-}\eta^2\text{:}\eta^1\text{CH}_2\text{=CH})\text{Pt}(\text{PPh}_3)_2]^{+2} 2[\text{^-OSO}_2\text{CF}_3]$ and $[(\eta^5\text{-C}_5\text{Me}_5)(\text{PMe}_3)\text{Rh}(\mu\text{-H})(\mu\text{-}\eta^2\text{:}\eta^1\text{PhC}\equiv\text{C})\text{Pt}(\text{PPh}_3)_2]^{+2} 2[\text{^-OSO}_2\text{CF}_3]$, D.H. Cao, P.J. Stang, A.M. Arif, Organometallics **1995**, 14, 2733-2740.
- 265.B** Modern Acetylene Chemistry, P.J. Stang; F. Diederich, Eds., VCH Publishers, Weinheim, Germany, 1995.
- 266.P** Self-Assembly of Cationic, Tetranuclear, Pt(II) and Pd(II) Macrocyclic Squares. X-ray Crystal Structure of $[\text{Pt}^{++}(\text{dppp})(4,4'\text{-bipyridyl})2\text{O}^-\text{SO}_2\text{CF}_3]_4$ P.J. Stang, D.H. Cao, S. Saito, A.M. Arif, J. Am. Chem. Soc. **1995**, 117, 6273-6283.
- 267.P** Preparation of Nitrogen Containing Bis-Heteroaryliodonium Salts, P.J. Stang, B. Olenyuk, K. Chen, Synthesis **1995**, 937-938.
- 268.P** Interaction of Alkylidenecarbenes with Nitroso Compounds, P.J. Stang, G.H. Anderson, Gazz. Chim. Ital. **1995**, 125, 329-331.
- 269.P** Modular Assembly of Hybrid Iodonium-Transition Metal Cationic Tetranuclear Macrocyclic Squares. Single Crystal Molecular Structure of $\{[\text{Et}_3\text{P}]_2\text{Pd}(\text{OTf})_2\}[\text{NC}_5\text{H}_4\text{C}_6\text{H}_4]_2\text{I}(\text{OTf})\}_2$, P.J. Stang, K. Chen, A.M. Arif, J. Am. Chem. Soc. **1995**, 117, 8793-8797.
- 270.P** Diastereomeric Square Planar Pt(II) and Pd(II) Complexes Due to Restricted Rotation About the M-N Chelated Heteroaryl Bond, P.J. Stang, B. Olenyuk, A.M. Arif, Organometallics **1995**, 14, 5281-5289.
- 271.P** Fluorinating Properties of PhTeF_5 and PhSeF_5 Towards C-C Double Bonds, S.A. Lermontov, S.I. Zavorin, I.V. Bakhtin, N.S. Zefirov, P.J. Stang, Phosphorus, Sulfur and Silicon **1995**, 102, 283-286.
- 272.C** Synthesis and X-Ray Crystal Structure of 1-Cyano-3,3-bis(trifluoromethyl)-3-(1H)-1,2-benziodoxol, Stable Cyanoiodinane, V.V. Zhdankin, C.J. Kuehl, A.M. Arif, P.J. Stang, Mendeleev Commun. **1996**, 50-51.
- 273.C** Directed Self-Assembly of Chiral, Optically Active Macrocyclic Tetranuclear Squares, P.J. Stang, B. Olenyuk, Angewandte Chemie Int. Ed. Engl. **1996** 35, 732-736.
- 274.C** Combining Ferrocenes and Molecular Squares: Self-Assembly of Heterobimetallic Macrocyclic Squares Incorporating Mixed Transition Metal Systems and a Main Group Element. Single Crystal X-ray Structure of $[\text{Pt}(\text{dppf})(\text{H}_2\text{O})_2][\text{OTf}_2]$, P.J. Stang, B. Olenyuk, J. Fan, A.M. Arif, Organometallics **1996**, 15, 904-908.
- 275.R** Organic Polyvalent Iodine Compounds, P.J. Stang, V.V. Zhdankin, Chem. Rev. **1996**, 96, 1123-1178.
- 276.C** A Novel Method of C-C Bond Formation via Phenylation of Terminal Acetylenes by Triphenylbismuth Difluoride, S.A. Lermontov, I.M. Rakov, N.S. Zefirov, P.J. Stang, Tetrahedron Lett. **1996**, 37, 4051-4054.
- 277.P** The Synthesis and Characterization of Chiral Atropisomeric 4,4-Biquinolines, M. Slany, P.J. Stang, Synthesis, **1996**, 1019-1028.
- 278.P** Synthesis of Bicyclic Eneidyne from Bis[phenyl][(trifluoromethyl)sulfonyl]oxy]iodo]acetylene: A Tandem Diels-Alder/Palladium(II) and Copper(I) Cocatalyzed Cross-Coupling Approach, J.H. Ryan, P.J. Stang, J. Org. Chem. **1996**, 61, 6162-6165.

- 279.P** Supramolecular Chemistry: Self-Assembly of Titanium Based Molecular Squares, P.J. Stang, J.A. Whiteford, Res. Chem. Intermed. **1996**, 22, 659-665.
- 280.P** The Design and Study of Synthetic Chiral Nanoscopic Assemblies. Preparation and Characterization of Optically Active Hybrid Iodonium-Transition-Metal and All-Transition-Metal Macrocyclic Molecular Squares, P.J. Stang, J.A. Whiteford, B. Olenyuk, J. Am. Chem. Soc. **1996**, 118, 8221-8230.
- 281.C** Fast Atom Bombardment Mass Spectrometry as a Means of Characterizing Cationic Chelated Species, J.A. Whiteford, E. Rachlin, P.J. Stang, Angew. Chem. Int. Ed. Engl. **1996**, 35, 2524-2529.
- 282.C** Alkynyl Phosphates are Potent Inhibitors of Serine Enzymes, D. Segal, C. Shalitin, Y. Shalitin, D.R. Fischer, P.J. Stang, FEBS Lett. **1996**, 392, 117-120.
- 283.C** Design and Self-Assembly of Nanoscale Organoplatinum Macrocycles, J. Manna, J.A. Whiteford, P.J. Stang, D.C. Muddiman, R.D. Smith, J. Am. Chem. Soc. **1996**, 118, 8731-8732.
- 284.C** Heterobimetallic Early-Late Transition Metal Tetrameric Metallomacrocycles via Self-Assembly, P.J. Stang, N.E. Persky, J. Chem. Soc. Chem. Commun. **1997**, 77-78.
- 285.R** Methylidenecyclopropenes: Novel Compounds with Fascinating Properties, B. Halton, P.J. Stang, Synlett **1997**, 145-158.
- 286.R** Supramolecular Chemistry and Molecular Design: Self-Assembly of Molecular Squares, D.H. Cao, K. Chen, J. Fan, J. Manna, B. Olenyuk, J.A. Whiteford, P.J. Stang, Pure Appl. Chem. **1997**, 69, 1979-1986.
- 287.P** Molecular Architecture via Coordination: Self-Assembly, Characterization and Host-Guest Chemistry of Mixed Neutral-Charged Pt-Pt and Pt-Pd Macrocyclic Tetranuclear Complexes. X-ray Crystal Structure of Cyclo-bis-[[cis-Pt(dppp)(4-ethynylpyridine)₂][cis-Pd²⁺(PEt₃)₂2O⁻SO₂CF₃]]₂, J.A. Whiteford, C.V. Lu, P.J. Stang, J. Am. Chem. Soc. **1997**, 119, 2524-2533.
- 288.P** Molecular Architecture via Coordination: Marriage of Crown Ethers and Calixarenes with Molecular Squares, Unique Tetranuclear Metallamacrocycles from Metallacrown Ether and Metallacalixarene Complexes via Self-Assembly, P.J. Stang, D.H. Cao, K. Chen, G.M. Gray, D.C. Muddiman, R.D. Smith, J. Am. Chem. Soc. **1997**, 119, 5163-5168.
- 289.P** Oxidative Properties of Xenon(II) Compounds. A New Convenient Synthesis of [bis(trifluoroacetoxy)iodo]arenes, [bis(trifluoroacetoxy iodo)]perfluoroalkanes and Oxo-bridged Aryliodoso-Derivatives. T.M. Kasumov, V.K. Brel, Y.K. Grishin, N.S. Zefirov, P.J. Stang, Tetrahedron **1997**, 53, 1145-1150.
- 290.P** Preparation, via Double Oxidative Addition, and Characterization of Bimetallic Platinum and Palladium Complexes: Unique Building Blocks for Supramolecular Macrocycles, J. Manna, C.J. Kuehl, J.A. Whiteford, P.J. Stang, Organometallics **1997**, 16, 1897-1905.
- 291.B** Dicoordinated Carbocations, Z. Rappoport, P.J. Stang, Eds., J. Wiley and Sons, Chichester, **1997**.
- 292.C** Molecular Architecture via Coordination: Self-Assembly of Cyclic Cationic Porphyrin Aggregates via Transition Metal Bisphosphane Auxiliaries, P.J. Stang, J. Fan, B. Olenyuk, J. Chem. Soc. Chem. Commun. **1997**, 1453-1454.

PETER STANG – VITA

- 293.C** Transition Metal Mediated Rational Design and Self-Assembly of Chiral, Nanoscale Supramolecular Polyhedra with Unique T-Symmetry, P.J. Stang, B. Olenyuk, D.C. Muddiman, R.D. Smith, Organometallics **1997**, 16, 3094-3096.
- 294.C** Molecular Architecture via Coordination: Self-Assembly of Nanoscale Platinum Containing Molecular Hexagons, P.J. Stang, N.E. Persky, J. Manna, J. Am. Chem. Soc. **1997**, 119, 4777-4778.
- 295.P** Regiochemistry Of Diels-Alder Reactions of Diverse β -Functionalized Alkynyliodonium Salts with Unsymmetrical Dienes, P. Murch, A.M. Arif, P.J. Stang, J. Org. Chem. **1997**, 62, 5959-5965.
- 296.C** Direct α -Arylation of Ketones: The Reaction of Cyclic Ketone Enolates with Diphenyliodonium Triflate, J. H. Ryan, P.J. Stang, Tetrahedron Lett. **1997**, 38, 5061-5064.
- 297.P** Ready Formation of Functionalized Alkynyl Phenyl Selenides and Tellurides via Alkynyliodonium Triflates, P.J. Stang, P. Murch, Synthesis **1997**, 1378-1380.
- 298.R** Self-Assembly, Symmetry and Molecular Architecture: Coordination as the Motif in the Rational Design of Supramolecular Metallacyclic Polygons and Polyhedra, P.J. Stang, B. Olenyuk, Accounts Chem. Res. **1997**, 30, 502-518.
- 299.C** [2+3]-Cycloaddition Reactions of Alkynyl(phenyl)iodonium Triflates with Ethyldiazoacetate, N-t-Butyl- α -phenyl Nitron and t-Butylnitrileoxide as 1,3-Dipoles, P.J. Stang, P. Murch, Tetrahedron Lett. **1997**, 8793-8794.
- 300.R** Alkynyl and Aryl Cations in Disubstituted Carbocations, Z. Rappoport, P.J. Stang, Eds. J. Wiley & Sons, Chichester, 1997, Chapt. 10; pp. 451-460.
- 301.P** New One Pot Method for the Stereoselective Synthesis of (E)-[β -(Trifluoromethylsulfonyloxy)-Alkenyl(Aryl) Iodonium Triflates, T.M. Kasumov, N. Sh. Pirgulyev, V.K. Brel, Y.K. Grishin, N.S. Zefirov, P.J. Stang, Tetrahedron **1997**, 53, 13139-13148.
- 302.P** Xenon Fluoride Triflate as a New Oxidant for the Generation of Aryl Iodoso Derivatives as Key Intermediates in the Synthesis of Aryliodonium Salts, V.K. Brel, N.S. Zefirov, K.A. Potekhin, P.J. Stang, New J. Chem. **1997**, 21, 1347-1351.
- 303.P** Nanoscale Tectonics: Self-Assembly, Characterization and Chemistry of a Novel Class of Organoplatinum Square Macrocycles, J. Manna, C.J. Kuehl, J.A. Whiteford, P.J. Stang, D.C. Muddiman, S.A. Hofstadler, R.D. Smith, J. Am. Chem. Soc. **1997**, 119, 11611-11619.
- 304.C** Crystal and Molecular Structure of E-[(trifluoromethanesulphonyloxy)-1-hexenyl](phenyl)iodonium triflate, T.M. Kasumov, V.K. Brel, K.A. Potekhin, E.V. Balashova, N.S. Zefirov, P.J. Stang, Dokl. Akad. Nauk. **1997**, 353, 770-773.
- 305.R** Molecular Architecture: Coordination as the Motif in the Rational Design and Assembly of Discrete Supramolecular Species. Self-Assembly of Metallacyclic Polygons and Polyhedra, P.J. Stang, Chem. Eur. J. **1998**, 4, 19-27.
- 306.R** Polycoordinate Iodine Compounds, V.V. Zhdankin, P.J. Stang in Chemistry of Hypervalent Compounds, K. Akiba, E., Wiley-VCH Publishers, New York, 1998, Chapt. 11, pp. 327-358.
- 307.B** Metal-catalyzed Cross-Coupling Reactions, F. Diederich, P.J. Stang, Eds. Wiley-VCH, Weinheim, 1998.

PETER STANG – VITA

- 308.C** One Step Synthesis of N-Sulfonylazepines from Sulfonylamides and Benzene in the Presence of XeF₂, S.V. Kovalenko, V. K. Brel, N.S. Zefirov, P.J. Stang, Mendeleev Commun. **1998**, 68-69.
- 309.R.** Molecular Architecture of Cyclic Nanostructures: Use of Coordination Chemistry in the Building of Supermolecules with Predefined Geometric Shapes, B. Olenyuk, A. Fechtenkötter, P.J. Stang, Dalton Transactions, **1998**, 1707-1728.
- 310.P** Neutral Guest Capture via Lewis Acid-Base Molecular Square Receptors. X-ray Crystal Structure of Cyclobis[[cis-Pt(dppp)(4-ethynylpyridine)₂][cis-Pt²⁺(PEt₃)₂2O⁻SO₂CF₃]].2AgOTf.phenazine, J.A. Whiteford, P.J. Stang, S.D. Huang, Inorg. Chem., **1998**, 37, 5595-5601.
- 311.R** Alkynyliodonium Salts in Organic Synthesis, V.V. Zhdankin, P.J. Stang, Tetrahedron **1998**, 54, 10927-10966.
- 312.P** Synthesis and Characterization of Organoplatinum Dendrimers with 1,3,5-Triethynylbenzene Building Blocks, S. Leininger, P.J. Stang, S.D. Huang, Organometallics **1998**, 17, 3981-3987.
- 313.P** Self-Assembly, Chiroptical Properties and Host-Guest Chemistry of Chiral Pt-Pt and Pt-Pd Tetranuclear Macrocycles. Circular Dichroism Studies on Neutral Guest Inclusion Phenomena, C. Müller, J.A. Whiteford, P.J. Stang, J. Am. Chem. Soc. **1998**, 120, 9827-9837.
- 314.R** Molecular Architecture: Application of Coordination Chemistry in the Rational Design of Nanoscopic Polygons and Polyhedra with Well-Defined Shapes and Geometries, P.J. Stang, B. Olenyuk, Science Progress **1998**, 81, 341-368.
- 315.P** Fluorination of Olefins with PhSeF₃, PhSeF₅ and PhTeF₅, A. Lermontov, S.I. Zavorin, I.V. Bakhtin, A.N. Pushkin, N.S. Zefirov, P.J. Stang, J. Fluorine Chem. **1998**, 87, 75-83.
- 1999-2003**
- 316.P** Dynamics of Noncovalent Supramolecular Complexes. NMR Study of the Rotational Barriers in Chiral BINAP Pd(II) and Pt(II) Bisphosphane Complexes that Resemble the Minimal Subunits of Chiral Polygons and Polyhedra, M. Fuss, H.-U. Siehl, B. Olenyuk, P.J. Stang, Organometallics, **1999**, 18, 758-769.
- 317.R** Transition-Metal-Mediated Self-Assembly of Discrete Nanoscopic Species with Well-Defined Shapes and Geometries, P.J. Stang, B. Olenyuk, in Handbook of Nanostructured Materials and Nanotechnology, Vol. 5: Organics, Polymers and Biological Materials, H.S. Nalway, Ed., Ch.2; pp 167-224, Academic Press, New York, 1999.
- 318.C** A Potential Chemical Source of C₂, W. Pan, B.M. Armstrong, P.B. Shevlin, C.H. Crittall, P.J. Stang, Chem. Lett. **1999**, 849-850.
- 319.C** Self-Assembly of Nanoscale Cuboctahedra by Coordination Chemistry, B. Olenyuk, J.A. Whiteford, A. Fechtenkötter, P.J. Stang, Nature, **1999**, 398, 796-799.
- 320.P** Self-Assembly of Porphyrin Arrays via Coordination to Transition Metal Bisphosphine Complexes and the Unique Spectral Properties of the Product Metallacyclic Ensembles, J. Fan, J.A. Whiteford, B. Olenyuk, M.D. Levin, P.J. Stang, E.B. Fleischer, J. Am. Chem. Soc. **1999**, 121, 2741-2752.
- 321.P** Preparation and Solid State Properties of Self-Assembled Pt(II) and Pd(II) Dinuclear Rhomboids from Carbon and Silicon Tectons, M. Schmitz, S. Leininger, J. Fan, A.M. Arif, P.J. Stang, Organometallics **1999**, 18, 4817-4824.

- 322.P** Stereoselective Synthesis of Conjugated Alkynes via Palladium Catalyzed Coupling of Alkenyl Iodonium Salts with Terminal Alkynes, N. Sh. Pirguliyev, V.K. Brel, N.S. Zefirov, P.J. Stang, Tetrahedron **1999**, 53, 12377-12386.
- 323.P** Xenon Fluorotriflate: an Efficient Reagent for the Synthesis of (p-Phenylene)bisiodonium Salts, N. Sh. Pirguliyev, V.K. Brel, T.M. Kasumov, Yu. K. Grishin, N.S. Zefirov, P.J. Stang, Synthesis **1999**, 1297-1299.
- 324.** Induced Oxidative Rearrangement of Nonterminal Alkynes by [fluoro(trifluoromethane-sulfonyloxy)iodo]benzene to Esters of 2-Alkyl and 2-Arylalkanoic Acids, N. Sh. Pirguliyev, V.K. Brel, N.S. Zefirov, P.J. Stang, Mendeleev Commun. **1999**, 189-190.
- 325.C** Self-Assembly of Nanoscopic Dodecahedra from 50 Predesigned Components, B. Olenyuk, M.D. Levin, J.A. Whiteford, J.E. Shield, P.J. Stang, J. Am. Chem. Soc., **1999**, 121, 10434-10435.
- 326.** Molecular Architecture via Coordination: Self-Assembly of Pseudo Hexagonal A^2X^2 Macrocycles, S. Leininger, M. Schmitz, P.J. Stang, Org. Lett. **1999**, 1, 1921-1923.
- 327.C** Synthesis of E and (Z)-[β -methanesulfonyloxy-1-alkenyl](phenyl)iodonium methanesulfonates, N.S. Pirguliyev, V.K. Brel, T.M. Kasumov, N.S. Zefirov, P.J. Stang, Zh. Org. Khim. **1999**, 35, 1633-1636.
- 328.P** Hexafluoropropene oxide - a fluorinating reagent for the formation of element fluorine bonds. S.A. Lermontov, I.M. Rakov, N.S. Zefirov, P.J. Stang, J. Fluorine Chem. **1999**, 93, 103-106.
- 329.B** Templated Organic Synthesis, F. Diederich, P.J. Stang, Eds., Wiley-VCH, Weinheim, **2000**.
- 330.** Self-assembly of Discrete Cyclic Nanostructures Mediated by Transition Metals, S. Leininger, B. Olenyuk, P.J. Stang, Chem. Rev. **2000**, 100, 853-907.
- 331.** Preparation, Characterization and X-ray Crystal Structures of Isotactic and Syndiotactic Zinc-based Coordination Oligomers, W.W. Ellis, M. Schmitz, A. Arif, P.J. Stang, Inorg. Chem., **2000** 39, 2547-2557.
- 332.P** Archimedean Solids: Transition Metal Mediated Rational Self-assembly of Truncated Supramolecular Tetrahedra, S. Leininger, J. Fan, M. Schmitz, P.J. Stang, Proc. Natl. Acad. Sci. USA, **2000**, 97, 1380-1384.
- 333.** Editorial, P.J. Stang, J. Org. Chem. **2000**, 65, 1.
- 334.C** Rational Design of Chiral Nanoscale Adamantanoids, M. Schweiger, S. Seidel, M. Schmitz, P.J. Stang, Org. Lett. **2000**, 2, 1255-1257.
- 335.C** Insights into the Mechanism of Coordination Directed Self-Assembly, M.D. Levin, P.J. Stang, J. Am. Chem. Soc. **2000**, 122, 7428-7429.
- 336.C** Coordination-Driven Assembly of Molecular Rectangles via an Organometallic Clip, C.J. Kuehl, C.L. Mayne, A.M. Arif, P.J. Stang, Org. Lett. **2000**, 2, 3727-3729.
- 337.C** Template and Guest Effects on the Self-Assembly of a Neutral Homochiral Helix, F.M. Tabellion, S.R. Seidel, A.M. Arif, P.J. Stang, Angew. Chem. Int. Ed. **2001**, 40, 1529-1532.
- 338.P** Single- and Double Stranded Chains Assembled via Concomitant Metal Coordination and Hydrogen Bonding, C.J. Kuehl, F.M. Tabellion, A.M. Arif, P.J. Stang, Organometallics **2001**, 20, 1956-1959.

- 339.C** Palladium Catalyzed Arylation of Enynes and Electron-deficient Alkynes Using Diaryliodonium Salts, U. Radhakrishnan, P.J. Stang, Org. Lett. **2001**, 3, 859-860.
- 340.C** Discrete Supramolecular Architecture vs Crystal Engineering: the Rational Design of a Platinum-Based Bimetallic Assembly with a Chair-Like Structure and its Infinite, Copper Analogue, F.M. Tabellion, S.R. Seidel, A.M. Arif, P.J. Stang, J. Am. Chem. Soc. **2001**, 123, 7740-7741.
- 341.C** The Self-Assembly of an Unexpected, Unique Supramolecular Triangle Composed of Rigid Subunits, M. Schweiger, S.R. Seidel, A.M. Arif, P.J. Stang, Angew. Chem. Int. Ed. Engl. **2001**, 40, 3467-3469.
- 342.P** Self-Assembly with Post-Modification: Kinetically Stabilized Metalla-Supramolecular Rectangles, C.J. Kuehl, S.D. Huang, P.J. Stang, J. Am. Chem. Soc., **2001**, 123, 9634-9641.
- 343.P** A Novel, Tunable Manganese Coordination System Based on a Flexible "Spacer" Unit: Non-Covalent Templatation Effects, F.M. Tabellion, S.R. Seidel, A.M. Arif, P.J. Stang, J. Am. Chem. Soc. **2001**, 123, 11982-11990.
- 344.C** Metal Directed Formation of Three Dimensional M_3L_2 Trigonal-Bipyramidal Cages, U. Radhakrishnan, M. Schweiger, P.J. Stang, Organic Lett. **2001**, 3, 3141-3143.
- 345.C** Interaction of Trimethylsilyl Isocyanate with Xenon Difluoride and Fluoroxenonium Triflate in the Presence of Alkenes, N.S. Pirkuliev, V.K. Brel, N.G. Akhmedov, N.S. Zefirov, P.J. Stang, Mendeleev Commun. **2001**, 5, 171-172.
- 346.C** Xenon difluoride-trimethyl isocyanate-triflic acid as a new system for the animation of aromatic compounds, N. Sh. Pirkuliev, V.K. Brel, N.G. Akhmedov, N.S. Zefirov, P.J. Stang, Mendeleev Commun. **2001**, 5, 172-173.
- 347.P** One Dimensional Coordination Polymers Based on First Row Transition Metals: A Solid State Study of Weak Backbone Interactions, S.R. Seidel, F.M. Tabellion, A.M. Arif, P.J. Stang, Israel J. Chem. **2001**, 41, 149-161.
- 348.P** Self-Assembly of Nanoscopic Coordination Cages of D_{3h} Symmetry, C.J. Kuehl, Y.K. Kryshchenko, U. Radhakrishnan, S.R. Seidel, S.D. Huang, P.J. Stang, Proc. Natl. Acad. Sci. USA, **2002**, 99, 4932-4936.
- 349.** 2002 JACS Editorial, P.J. Stang, J. Am. Chem. Soc. **2002**, 124, 1-2.
- 350.P** Solution and Solid State Studies of a Triangle-Square Equilibrium: Anion-Induced Selective Crystallization in Supramolecular Self-Assembly, M. Schweiger, S.R. Seidel, A.M. Arif, P.J. Stang, Inorg. Chem. **2002**, 41, 2556-2559.
- 351.** Self-Assembly of Molecular Prisms via an Organometallic "Clip", C.J. Kuehl, T. Yamamoto, S.R. Seidel, P.J. Stang, Org. Lett. **2002**, 4, 913-915.
- 352.R** Recent Developments in the Chemistry of Polyvalent Iodine Compounds, V.V. Zhdankin, P.J. Stang, Chem. Rev. **2002**, 102, 2523-2584.
- 353.P** Engineering the Structure and Magnetic Properties of Crystalline Solids via the Metal Directed Self-assembly of a Versatile Molecular Building Unit, J.C. Noveron, M.S. Lah, R. Del Sesto, A.M. Arif, J.S. Miller, P.J. Stang, J. Am. Chem. Soc. **2002**, 124, 6613-6625.
- 354.P** Supramolecular Assemblies of Dimetal Complexes with Polydentate N-donor Ligands: From a Discrete Pyramid to a 3D Channel Network, F.A. Cotton, E. Dikarev, M.A. Petrukhina, M. Schmitz, P.J. Stang, Inorg. Chem. **2002**, 41, 2903-2908.

PETER STANG – VITA

- 355.C** Coordination Driven Self-Assembly: Solids with Bi-Directional Porosity, K. Campbell, C.J. Kuehl, M.J. Ferguson, P.J. Stang, R.R. Tykwinski, J. Am. Chem. Soc. **2002**, 124, 7266-7267.
- 356.P** Metalla-Supramolecular Rectangles as Electron Reservoirs for Multi Electron Reduction and Oxidation, W. Kaim, B. Schwederski, A. Dogan, J. Fiedler, C.J. Kuehl, P.J. Stang, Inorg. Chem. **2002**, 41, 4025-4028.
- 357.R** High Symmetry Coordination Cages via Self-Assembly, S.R. Seidel, P.J. Stang, Accounts Chem. Res. **2002**, 35, 972-983.
- 358.C** Optical Sensing of Small Hydroxyl-Containing Molecules in New Crystalline Lamellar Arrays of Co(II) and N-(4-Pyridyl)benzamide, J.C. Noveron, A.M. Arif, P.J. Stang, Chem. Mat. **2003**, 15, 372-374.
- 359.P** Thermally Stable Porous Supramolecular Frameworks Based on Metal and π - π Stacking Directed Molecular Self-Assembly, J.C. Noveron, B. Chatterjee, A.M. Arif, P.J. Stang, J. Phys. Org. Chem., **2003**, 16, 420-425.
- 360.P** 124 Years of Publishing Original and Primary Chemical Research: 135,149 Publications, 573,453 Pages and a Century of Excellence. Editorial, P.J. Stang, J. Am. Chem. Soc., **2003**, 125, 1-8.
- 361.P** A New Approach to Phosphonate Analogues of Phosphatidyl Derivatives, V.K. Brel, P.J. Stang, Eur. J. Org. Chem. **2003**, 224-229.
- 362.P** Coordination-Driven Self-Assembly of Presdesigned Supramolecular Triangles, Y.K. Kryschenko, S.R. Seidel, A.M. Arif, P.J. Stang, J. Am. Chem. Soc. **2003**, 125, 5193-5198.
- 363.P** Polyvalent Iodine in Organic Chemistry, P.J. Stang, J. Org. Chem. **2003**, 68, 2997-3008.
- 364.P** Coordination Driven Self-Assembly of Supramolecular Cages: Heteroatom Containing and Complementary Trigonal Prisms, Y.K. Kryschenko, S.R. Seidel, D.C. Muddiman, A.I. Nepomureno, P.J. Stang, J. Am. Chem. Soc., **2003**, 125, 9647-9652.
- 365.P** Synthesis and Molecular Structure of New Acyclic Analogues of Nucleotides with 1,2-Alkadienic Skeleton, V.K. Brel, V.K. Belsky, A.I. Stash, V.E. Zarodnik, P.J. Stang, Org. Biomol. Chem., **2003**, 1, 4220-4226.
- 366.P** Dynamic Equilibrium of a Supramolecular Dimeric Rhomboid and Trimeric Hexagon and Determination of its Thermodynamic Constants, T. Yamamoto, A.M. Arif, P.J. Stang, J. Am. Chem. Soc., **2003**, 125, 12309-12317.
- 367.P** Synthesis and Characterization of Cationic Iodonium Macrocycles, U. Radhakrishnan, P.J. Stang, J. Org. Chem., **2003**, 68, 9209-9213.
- 368.C** Facile Self-Assembly of Predesigned Neutral Pt-Macrocycles via a New Class of Rigid Oxygen Donor Tectons, N. Das, P.S. Mukherjee, A.M. Arif, P.J. Stang, J. Am. Chem. Soc. **2003**, 125, 13950-13951.
- 369.C** Iodine, P.J. Stang, Chem. Eng. News, Sept. 8, **2003**, p. 130.
- 370.C** Bidentate Ligands Capable of Variable Bond Angles in the Self-Assembly of Discrete Supramolecules, K.-W. Chi, C. Addicott, A.M. Arif, N. Das, P.J. Stang, J. Org. Chem. **2003**, 68, 9798-9801.

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- 371.C** A Self-Assembled Supramolecular Optical Sensor for Ni(II), Cr(III) and Cd(II), M.J.E. Resendiz, J.C. Noveron, H. Disteldorf, S. Fischer, P.J. Stang, Org. Lett. **2004**, 6, 651-653.

- 372.P** Self-Assembly of Supramolecular Metallacyclic Ensembles: Structures and Adsorption Properties of Their Nanoporous Crystalline Frameworks, B. Chatterjee, J.C. Noveron, M.J.E. Resendiz, J. Lui, T. Yamamoto, D. Parker, M. Cinke, C.V. Nguyen, A.M. Arif, P.J. Stang, J. Am. Chem. Soc. **2004**, 126, 10645-10656.
- 373.P** Design, Synthesis and Crystallographic Studies of Neutral Platinum Based Macrocycles, Formed via Self-Assembly, P.S. Mukherjee, N.Das, Y. Kryschenko, A.M. Arif, P.J. Stang, J. Am. Chem. Soc. **2004**, 126, 2464-2473.
- 374.C** Flexible Bidentate Pyridine and Chiral Ligands in the Self-assembly of Supramolecular 3D Cages, K.-W. Chi, C. Addicott, Y.K. Kryschenko, P.J. Stang, J. Org. Chem. **2004**, 69, 964-966.
- 375.P** In Vitro Activity of Iodonium Salts Against Oral and Dental Anaerobes, E.J.C. Goldstein, D.M. Citron, Y. Warren, C.V. Merriam, K. Tyrrell, H. Fernandez, U. Radhakrishnan, P.J. Stang, G. Conrads, Antimicrobial Agents and Chemotherapy **2004**, 48, 2766-2770.
- 376.C** Incorporation of a Flexible, Pyridine-Functionalized Diaza-Crown Ether into Discrete Supramolecules via Coordination-Driven Self-Assembly, K.-W. Chi, C. Addicott, P.J. Stang, J. Org. Chem., **2004**, 69, 2910-2912.
- 377.C** Self-Assembly of Nanoscopic Coordination Cages Using a Flexible Tripodal Amide Containing Linker, P.S. Mukherjee, N. Das, P.J. Stang, J. Org. Chem., **2004**, 69, 3526-3529.
- 378.P** Synthesis and Crystal Structure of Two New Discrete, Neutral Complexes of Manganese and Zinc Using a Rigid Organic Clip, P.S. Mukherjee, K.S. Min, A.M. Arif, P.J. Stang, Inorg. Chem. **2004**, 43, 6345-6350.
- 379.P** Self-Recognition in the Coordination Driven Self-Assembly of 2-D Polygons, C. Addicott, N. Das, P.J. Stang, Inorg. Chem., **2004**, 43, 5335-5338.
- 380.R** Historical Perspectives, P.J. Stang, in Carborane Chemistry, G.A. Olah and G.K.S. Prakash, Eds., Chap. 1, pp 1-6, J. W. Wiley, Hoboken, NJ, 2004.
- 381.P** Ambidentate Pyridyl-Carboxylate Ligands in the Coordination-Driven Self-Assembly of 2D Pt-Macrocycles. Self-Selection for a Single Isomer, K.-W. Chi, C. Addicott, P.J. Stang, J. Am. Chem. Soc. **2004**, 126, 16569-16574.
- 382.P** Synthesis and Molecular Structure of New Unsaturated Analogues of Nucleotides with Dihydropyran Ring Skeleton, V.K. Brel, V.K. Belsky, A.I. Stash, V.E. Zavodnik, P.J. Stang, Eur. J. Org. Chem., **2005**, 512-521.
- 383.P** Synthesis of a Bis(pyridyl)-substituted Perylene Diimide Ligand and Incorporation into a Supramolecular Rhomboid and Rectangle via Coordination Driven Self-Assembly, C. Addicott, I. Oesterling, T. Yamamoto, K. Mullen, P.J. Stang, J. Org. Chem. **2005**, 70, 797-801.
- 384.** JACS Policy on Manuscript Processing, JACS Editorial, J. Am. Chem. Soc. **2005**, 127, 1.
- 385.B** Acetylene Chemistry: Chemistry, Biology and Material Science, F.Diederich, P.J. Stang, R.R. Tykwinski, Eds. Wiley-VCH, Weinheim, 2005.
- 386.P** Mesoscopic Self-organization of a self-assembled supramolecular rectangle on HPOG and on Au(III) surfaces, J.R. Gong, L.J. Wan, Q.H. Yuan, C.L. Bai, H. Jude, P.J. Stang, Proc. Nat. Acad. Sci. USA **2005**, 102, 971-974.
- 387.P** Self-Assembly of Heterobimetallic Neutral Macrocycles Incorporating Ferrocene Spacer Groups: Spectroelectrochemical Analysis of the Double Two-Electron Oxidation of a Molecular Rectangle, N. Das, A.M. Arif, P.J. Stang, M. Sieger, B. Sarkar, W. Kaim, J. Fiedler, Inorg. Chem. **2005**, 44, 5798-5804.

- 388.C** Self-Assembly of Nanoscale Supramolecular Truncated Tetrahedra, M. Schweiger, T. Yamamoto, P.J. Stang, D. Bläser, R. Boese, J. Org. Chem. **2005**, 70, 4861-4864.
- 389.P** Self-Assembly of Neutral Platinum Based Supramolecular Ensembles Incorporating Oxocarbon Dianions and Oxalate, N. Das, A. Ghosh, A.M. Arif, P.J. Stang, Inorg. Chem., **2005**, 44, 7130-7137.
- 390.P** X-Ray Diffraction and DOSY-NMR Characterization of Self-Assembled Supramolecular Metallocyclic Species in Solution, T. Megyes, H. Jude, T. Grosz, I. Bako, T. Radnai, G. Tarkanyi, G. Palinkas, P.J. Stang, J. Am. Chem. Soc. **2005**, 127, 10731-10738.
- 391.P** Coordination Driven Self-Assemblies with a Carborane Backbone, H. Jude, H. Disteldörf, S. Fischer, T. Wedge, A. H. Hawkrige, A.M. Arif, M.F. Hawthorne, D.C. Muddiman, P.J. Stang, J. Am. Chem. Soc. **2005**, 127, 12131-12139.
- 392.P** Self-Organization of a Self-Assembled Supramolecular Rectangle, Square and Three-Dimensional Cage on Au(III) Surfaces, Q.H. Yuan, L.J. Wan, H. Jude, P.J. Stang, J. Am. Chem. Soc. **2005**, 127, 16279-16286.
- 393.C** Dynamic NMR Study of the Hindered Pt-N(bipyridine) Rotation in Metal-Directed Self-Assembled Macrocycles, G. Tarkanyi, H. Jude, G. Palinkas, P.J. Stang, Org. Lett. **2005**, 7, 4971-4973.
- 394.P** Synthesis and Structural Characterization of Carborane Containing Neutral, Self-Assembled Pt-Metallacycles, N. Das, P.J. Stang, A.M. Arif, C.F. Compana, J. Org. Chem. **2005**, 70, 10440-10446.
- 395.P** Self-Assembly of Supramolecular Platinum Complexes with bis-Pyridyl Cavitands, H. Jude, D.J. Sinclair, N. Das, M.S. Sherburn, P.J. Stang, J. Org. Chem., **2006**, 71, 4155-4163.
- 396.P** Facile Synthesis of Enantiopure Chiral Molecular Rectangles Exhibiting Induced Circular Dichroism, N. Das, A. Ghosh, O.M. Singh, P.J. Stang, Org. Lett. **2006**, 8, 1701-1704.
- 397.C** Incorporation of 2, 6-Di(4,4'-dipyridyl)-9-Thiabicyclo[3.3.1]nonane into Discrete 2D Supramolecules via Coordination-Driven Self-Assembly, H. Yang, N. Das, F. Huang, A.M. Hawkrige, D.D. Diaz, A.M. Arif, M.G. Finn, D.C. Muddiman, P.J. Stang, J. Org. Chem. **2006**, 6644-6647.
- 398.C** Incorporating a Flexible Crown Ether into Neutral Discrete Supramolecules via Coordination-Driven Self-Assembly, F. Huang, H. Yang, U. Maran, A.M. Arif, H.W. Gibson, P.J. Stang, J. Org. Chem. **2006**, 71, 6623-6625.
- 399.C** Ambidentate Ligands Capable of Variable Bond Angles in the Coordination-Driven Self-Assembly of Discrete Pt-Macrocycles, K.-W. Chi, C. Addicott, M.E. Moon, H.J. Lee, S.C. Yoon, P.J. Stang, J. Org. Chem **2006**, 71, 6662-6665.
- 400.C** Molecular Architecture via Coordination: Self-Assembly of Nanoscale Hexagonal Metallodendrimers with Designed Building Blocks, H. Yang, N. Das, F. Huang, A.M. Hawkrige, D.C. Muddiman, P.J. Stang, J. Am. Chem. Soc. **2006**, 128, 10014-10015.
- 401.C** Self-Assembly of Three Dimensional M₃L₂ Cages via a new Flexible Organometallic "Clip", H.-B. Yang, K. Ghosh, N. Das, P.J. Stang, Org. Lett. **2006**, 8, 3991-3994.
- 402.C** Synthesis and Solution- and Solid-State Characterization of Gold(I) Rings with Short Au⁺...Au Interactions. Spontaneous Resolution of a Gold(I) Complex, A. Deak, T. Megyes, G. Tarkanyi, P. Kiraly, L. Biczok, G. Palinkas, P.J. Stang, J. Am. Chem. Soc. **2006**, 128, 12668-12670.

- 403.C.** The Synthesis of New 60 °Organometallic Subunits and Self-Assembly of Three Dimensional M₃L₂ Trigonal-Bipyramidal Cages, H.-B. Yang, K. Ghosh, A.M. Arif, P.J. Stang, J. Org. Chem. **2006**, 71, 9464-9469.
- 404.C** Coordination Driven Self-Assembly of Metallo dendrimers Possessing Well Defined and Controllable Cavities as Cores, H.-B. Yang, A.M. Hawkrigde, S.D. Huang, N. Das, S.D. Bunge, D.C. Muddiman, P.J. Stang, J. Am. Chem. Soc. **2007**, 129, 2120-2129.
- 405.C** Self-Recognition in the Coordination Driven Self-Assembly of Three-Dimensional M₃L₂ Polyhedra, H.-B. Yang, K. Ghosh, B.H. Northrop, P.J. Stang, Org. Lett. **2007**, 9, 1561-1564.
- 406.C.** The Control of Supramolecular Rectangle Self-Assembly with a Molecular Template, S.S. Li, H.J. Yan, L.J. Wan, H.-B. Yang, B.H. Northrup, P.J. Stang, J. Am. Chem. Soc. **2007**, 129, 9268-9269.
- 407.C** A Highly Efficient Approach to the Self-Assembly of Hexagonal Cavity-Cored Tris[2]pseudorotaxanes from Several Components via Multiple Noncovalent Interactions, H.-B. Yang, K. Ghosh, B.H. Northrop, Y.-R. Zheng, M.M. Lyndon, D.C. Muddiman, P.J. Stang, J. Am. Chem. Soc., **2007**, 129, 14187-14189.
- 408.C** JACS Policy on Manuscript Organization: Changes Concerning Back-to-Back Publications and Length of Communications, P.J. Stang, J. Am. Chem. Soc. **2007**, 129, 8051 (editorial).
- 409.P** Functionalized Hydrophobic and Hydrophilic Self-Assembled Supramolecular Rectangles, B.H. Northrop, A. Glöckner, P.J. Stang, J. Org. Chem., **2008**, 73, 1787-1794.
- 410.C** A New Family of Multiferrrocene Complexes with Enhanced Control of Structure and Stoichiometry via Coordination-Driven Self-Assembly and their Electrochemistry, H.-B. Yang, K. Ghosh, Y. Zhao, B.H. Northrop, M.M. Lyndon, D.C. Muddiman, H.S. White, P.J. Stang, J. Am. Chem. Soc. **2008**, 130, 839-841.
- 411.P** Coordination Driven Face-Directed Self-Assembly of Trigonal Prisms: Face-Based Conformational Chirality, Internal Mobility, and Caged Solvent Bubbles, D.C. Caskey, T. Yamamoto, C. Addicott, R.K. Shoemaker, J. Vacek, A.M. Hawkrigde, D.C. Muddiman, G.S. Kottas, J. Michl, P.J. Stang, J. Am. Chem. Soc. **2008**, 130, 7620-7629.
- 412.P** Pyridine Ligand Rotation in Self-Assembled Trigonal Prisms. Evidence for Intra-Cage Solvent Vapor Bubbles, J. Vacek, D.C. Caskey, D. Horinek, R.K. Shoemaker, P.J. Stang, J. Michl, J. Am. Chem. Soc. **2008**, 130, 7629-7638.
- 413.P** Coordination-Driven Self-Assembly of Cavity-Cored Multiple Crown Ether Derivatives and Poly[2]Pseudorotaxanes, K. Ghosh, H.-B. Yang, B.H. Northrop, M.M. Lyndon, Y.-R. Zheng, D.C. Muddiman, P.J. Stang, J. Am. Chem. Soc. **2008**, 130, 5320-5334.
- 414.P** Size Selective Self-Sorting in Coordination-Driven Self-Assembly of Finite Ensembles, Y.-R. Zheng, H.-B. Yang, B.H. Northrop, K. Ghosh, P.J. Stang, Inorg. Chem., **2008**, 47, 4706-4711.
- 415.P** Giant Micelles of Organoplatinum (II) Gemini Amphiphiles, U. Maran, M. Conley, M. Frank, A.M. Arif, A.M. Orendt, D. Britt, V. Hlady, R. Davis, P.J. Stang, Langmuir, **2008**, 24, 5400-5410.
- 416.B** Modern Supramolecular Chemistry: Strategies for Macrocyclic Synthesis, F. Diederich, P.J. Stang, R.R. Tykwinski, Eds. Wiley-VCH, Weinheim, 2008.
- 417.C** An STM Investigation of A Supramolecular Self-Assembled 3-Dimensional Chiral Prism on a Au(111)Surface, Q.H. Yuan, C.J. Yan, L.J. Wan, B.H. Northrop, H. Jude, P.J. Stang, J. Am. Chem. Soc. **2008**, 130, 8878-8879.

- 418.R** Carbonrich supramolecular metallacycles and metallacages, B.H. Northrop, D. Chercka, P.J. Stang, Tetrahedron, **2008**, 64, 11495-11503.
- 419.P** Self-Selection in the Self-Assembly of Isomeric Supramolecular Squares from Unsymmetrical Bis(4-pyridyl) Acetylene Ligands, L. Zhao, B.H. Northrop, Y.-R. Zheng, H.-B. Yang, H.J. Lee, Y.M. Lee, J.Y. Park, K.-W. Chi, P.J. Stang, J. Org. Chem. **2008**, 73, 6580-6586.
- 420.P** Nanopatterning of Donor/Acceptor Hybrid Supramolecular Architectures on HOPG: An STM Study, L. Wang, Q. Chen, G.-P. Pan, L.J. Wan, S. Zhang, X. Zhan, B.H. Northrop, P.J. Stang, J. Am. Chem. Soc. **2008**, 130, 13433-13441.
- 421.** JACS Virtual Issues, P.J. Stang, J. Am. Chem. Soc. **2008**, 130, 6653 (editorial).
- 422.** Information Age and the JACS Beta Site, P.J. Stang, S. Krane, J. Am. Chem. Soc. **2008**, 130, 8569 (editorial).
- 423.R** Chemistry of Polyvalent Iodine, V.V. Zhdankin, P.J. Stang, Chem. Rev. **2008**, 108, 5299-5358.
- 424.R.** Coordination-Driven Self-Assembly of Functionalized Supramolecular Metallacycles, B.H. Northrup, H.-B. Yang, P.J. Stang, Chem. Comm. **2008**, 5896-5908.
- 425.C** Supramolecule-to-Supramolecule Transformations of Coordination-Driven Self-Assembled Polygons, L. Zhao, B.H. Northrop, P.J. Stang, J. Am. Chem. Soc. **2008**, 130, 11886-11888.
- 426.C** Synthesis of a New Family of Hexakisferrocenyl Hexagons and Their Electrochemical Behavior, K. Ghosh, Y. Zhao, H.-B. Yang, B.H. Northrop, H.S. White, P.J. Stang, J. Org. Chem. **2008**, 73, 8553-8557.
- 427.R.** Second-Order Self-Organization in Coordination-Driven Self-Assembly. Exploring the Limits of Self-Selection, B.H. Northrop, H.-B. Yang, P.J. Stang, J. Inorg. Chem. **2008**, 47, 11257-11268.
- 2009-2014**
- 428.R** From Solvolysis to Self-Assembly, P.J. Stang, J. Org. Chem. **2009**, 74, 2-20.
- 429.R** Surface Confined Metallosupramolecular Architectures: Formation and STM Characterization, S.S. Li; B.H. Northrop, Q.H. Yuan, L.J. Wan, P.J. Stang, Accounts Chem. Res. **2009**, 42, 249-259.
- 430.C** Two dimensional OPV4 Self-Assembly and its Coadsorption with Alkyl Bromide: From Helix to Lamella, Q. Chen, T. Chen, X. Zhang, L.J. Wan, H.-B. Liu, Y.L. Li, P.J. Stang, Chem. Commun. **2009**, 3765-3767.
- 431.P** Multicomponent Supramolecular Systems: Self-Organization in Coordination-Driven Self-Assembly, Y.R. Zheng, H.-B. Yang, K. Ghosh, L. Zhao, P.J. Stang, Chem. Eur. J. **2009**, 15, 7203-7214.
- 432.C** Direct and Quantitative Characterization of Dynamic Ligand Exchange Between Coordination-Driven Self-Assembled Supramolecular Polygons, Y.-R. Zheng, P.J. Stang, J. Am. Chem. Soc., **2009**, 131, 3487-3489.
- 433.C** Synthesis of Six-Component Metallodendrimers via [3+3] Coordination Driven Self-Assembly, H.-B. Yang, B.H. Northrop, Y.-R. Zheng, K. Ghosh, M.M. Lyndon, D.C. Muddiman, P.J. Stang, J. Org. Chem. **2009**, 74, 3524-3527.
- 434.P** Geometry Directed Self-Selection in the Coordination Driven Self-Assembly of Irregular Supramolecular Polygons, Y.-R. Zheng, B.H. Northrop, H.-B. Yang, P.J. Stang, J. Org. Chem., **2009**, 74, 3554-3557.

- 435.P** Introduction of Hetero Functional Groups onto Molecular Hexagons via Coordination Driven Self-Assembly, K. Ghosh, J. Hu, H.-B. Yang, B.H. Northrop, H. White, P.J. Stang, J. Org. Chem. **2009**, 74, 4828-4833.
- 436.P** Self-Assembly of a Triangle-Shaped Hexaplatinum-Incorporated Supramolecular Amphiphile in Solution and at Interfaces, U. Maran, D. Britt, C.B. Fox, J.M. Harris, A.M. Orendt, H. Conley, R. Davis, V. Hlady, P.J. Stang, Chem. Eur. J. **2009**, 15, 8566-8577.
- 437.C** Construction of Multifunctional Cuboctahedra via Coordination-Driven Self-Assembly, K. Ghosh, J. Hu, H.S. White, P.J. Stang, J. Am. Chem. Soc. **2009**, 131, 6695-6697.
- 438.R** Self-Organization in Coordination Driven Self-Assembly, B.H. Northrop, Y.-R. Zheng, K.-W. Chi, P.J. Stang, Accounts of Chem. Res. **2009**, 42, 1554-1563.
- 439.C** Construction of Coordination Driven Self-Assembled [5+5] Pentagons using Metal-Carbonyl Dipyridine Ligands, L. Zhao, K. Ghosh, Y.-R. Zheng, M.M. Lyndon, T. Islam, P.J. Stang, Inorg. Chem. **2009**, 48, 5590-5592.
- 440.C** Theoretical Insights into Hydrogen Bonding and its Influence on the Standard and Spectral Properties of Aquo Palladium (II) Complexes: $\text{cis}-[(\text{dppp})\text{Pd}(\text{H}_2\text{O})_2]^{2+}$, $\text{cis}-[(\text{dppp})\text{Pd}(\text{H}_2\text{O})_2]^{2+} (\text{OSO}_2\text{CF}_3)^+$ $(\text{OSO}_2\text{CF}_3)^-$ and $\text{cis}-[(\text{dppp})\text{Pd}(\text{H}_2\text{O})_2]^{2+} (\text{OSO}_2\text{CF}_3)_2^-$, G. Jiu Zhao, Ke-Li Han, P.J. Stang, J. Chem. Theor. & Comp. **2009**, 5, 1955-1958.
- 441.** Contemporary Chemical Sciences and JACS Perspectives, P.J. Stang, J. Am. Chem. Soc. **2009**, 131, 12496 (Editorial).
- 442.C** Facile Self-Assembly of Neutral Dendritic Metallopolycycles via Oxygen-to-Platinum Coordination, H.-B. Yang, B.H. Northrop, Y.-R. Zheng, K. Ghosh, P.J. Stang, J. Org. Chem. **2009**, 74, 7067-7074.
- 443.C** Stoichiometric Control of Multiple Different Tectons in Coordination-Driven Self-Assembly: Preparation of Fused Metallacyclic Polygons, J. Lee, K. Ghosh, P.J. Stang, J. Am. Chem. Soc. **2009**, 131, 12028-12029.
- 444.P** Synthesis and X-Ray Structural Analysis of Platinum and Ethynyl-Platinum Corannulenes: Supramolecular Tectons, R. Maag, B.H. Northrop, A. Butterfield, A. Linden, O. Zerbe, Y.M. Lee, K.-W. Chi, P.J. Stang, Org. Biomol. Chem. **2009**, 7, 4881-4885.
- 445.P** Construction of Endo-Functionalized Two Dimensional Metallacycles via Coordination-Driven Self-Assembly, L. Zhao, K. Ghosh, Y.-R. Zheng, P.J. Stang, J. Org. Chem., **2009**, 74, 8516-8521.
- 446.P** Ultra-fast Optical Excitations in Supramolecular Metallacycles with Charge Transfer Properties, D.C. Flynn, G. Ramakrishna, H.-B. Yang, B.H. Northrop, P.J. Stang, T. Goodson III, J. Am. Chem. Soc. **2010**, 132, 1348-1358.
- 447.P** 2D-Assembly of Metallacycles on HOPG by Shape-Persistent Macrocyclic Templates, T. Chen, G.B. Pan, H. Wettach, M. Fritzsche, S. Höger, L.J. Wan, H.-B. Yang, B.H. Northrop, P.J. Stang, J. Am. Chem. Soc., **2010**, 132, 1328-1333.
- 448.P** Photophysical Properties of Coordination-Driven Self-Assembled Metallo-supramolecular Rhomboids: Combined Experimental and Theoretical Investigations, G.J. Zhao, B.H. Northrop, K.L. Han, P.J. Stang, J. Phys. Chem. A **2010**, 114, 3418-3422.
- 449.C** Metallo-supramolecular Tetragonal Prisms via Multicomponent Coordination-Driven Template-Free Self-Assembly, M. Wang, Y.-R. Zheng, K. Ghosh, P.J. Stang, J. Am. Chem. Soc. **2010**, 132, 6282-6283.

- 450.C** Coordination-Driven Self-Assembly of Three Dimensional Supramolecular Dendrimers, Y.-R. Zheng, K. Ghosh, H.-B. Yang, P.J. Stang, Inorg. Chem. **2010**, 49, 4747-4749.
- 451.P** Engineering of Linear Molecular Nanostructures by a Hydrogen Bond Mediated Modular and Flexible Host-Guest Assembly, X. Zhang, T. Chen, H.-J. Yan, D. Wang, Q.-H. Fan, L.-J. Wan, K. Ghosh, H.-B. Yang, P.J. Stang, ACS, Nano. **2010**, 4, 5685-5692.
- 452.P** Self-Assembly of a New Family of Dendritic Tris(Crown Ether) Hexagons and their Complexation with Dibenzylammonium Cations, X.D. Xu, H.-B. Yang, Y.-R. Zheng, K. Ghosh, M. Lyndon, D.C. Muddiman, P.J. Stang, J. Org. Chem. **2010**, 75, 7373-7380.
- 453.P** The Effect of Intermolecular Hydrogen Bonding on the Fluorescence of a Bimetallic Platinum Complex, G.-J. Zhao, K. Hahn, B. Northrop, P.J. Stang, J. Phys. Chem. A, **2010**, 114, 9007-9013.
- 454.C** Construction of Hexagonal Prisms of Variable Size via Coordination-Driven Multi-Component Self-Assembly, Z.G. Zhao, Y.-R. Zheng, M. Wang, J.B. Pollock, P.J. Stang, Inorg. Chem. **2010**, 49, 8653-8655.
- 455.P** A Facile Approach Towards Multi-Component Supramolecular Structures: Selective Self-Assembly via Charge Separation, Y.-R. Zheng, Z.G. Zhao, M. Wang, K. Ghosh, J.B. Pollock, P.J. Stang, T. Cook, J. Am. Chem. Soc. **2010**, 112, 16873-16882.
- 456.P** Structures of Metallasupramolecular Coordination Assemblies Can Be Obtained by Ion Mobility Spectrometry-Mass Spectrometry, E.R. Brocker, S.E. Anderson, B.H. Northrop, P.J. Stang, M.T. Bowers, J. Am. Chem. Soc. **2010**, 132, 13486-13494.
- 457.P** Facile Self-Assembly of Dendritic Multiferrocenyl Hexagons and Their Electrochemistry, Z.G. Zhao, L.-J. Chen, C.-H. Wang, H.-B. Yang, K. Ghosh, Y.-R. Zheng, M.M. Lyndon, D.C. Muddiman, P.J. Stang, Organometallics, **2010**, 29, 6137-6140.
- 458.C** Coordination-Driven Self-Assembly of Truncated Tetrahedra Capable of Encapsulating 1,3,5-Triphenylbenzene, Y.-R. Zheng, Z.G. Zhao, H. Kim, M. Wang, K. Ghosh, J.B. Pollock, K.-W. Chi, P.J. Stang, Inorg. Chem. **2010**, 49, 10238-10240.
- 459.P** Hydrogen Bond Partner Reorganization in the Coadsorption of a Monodendron and Pyridylethynyl Derivatives, X. Zhang, T. Chen, H.-J. Yan, D. Wang, Q.-H. Fan, L.-J. Wan, K. Ghosh, H.B Yang, P.J. Stang, Langmuir, **2011**, 27, 1292-1297.
- 460.C** Self-Assembly of Coordinative Supramolecular Polygons with Open Binding sites, Y.-R. Zheng, M. Wang, S. Kobayashi, P.J. Stang, Tetrahedron Lett., **2011**, 52, 2188-2191.
- 461.P** Coordination-Driven Self-Assembly of M_3L_2 Trigonal Cages from Preorganized Metalloligands Incorporating Octahedral Metal Centers and Fluorescent Detection of Nitroaromatics, M. Wang, V. Vajpayee, S. Shanmugaraju, Y.-R. Zheng, Z.G. Zhao, H. Kim, P. Mukherjee, K.-W. Chi, P.J. Stang, Inorg. Chem. **2011**, 50, 1506-1512.
- 462.C** Self-Assembled Molecular Squares Containing Metal-Based Donor: Synthesis and Application in the Sensing of Nitro-aromatics, V. Vajpayee, H. Kim, A. Mishra, P.S. Mukherjee, P.J. Stang, M.H. Lee, H. Kim, K.-W. Chi, Dalton Trans. **2011**, 40, 3112-3115.
- 463.C** Hexanuclear Self-Assembled Arene-Ruthenium Nano-Prismatic Cages: Potential Anticancer Agents, V. Vajpayee, Y.J. Yang, S.C. Kang, H. Kim, I.S. Kim, M. Wang, P.J. Stang, K.-W. Chi, Chem. Commun. **2011**, 47, 5184-5186.

- 464.C** Construction of Functionalized Metallasupramolecular Tetragonal Prisms via Multicomponent Coordination-Driven Self-Assembly, M. Wang, Y.-R. Zheng, T. R. Cook, P.J. Stang, *Inorg. Chem.* **2011**, 50, 6107-6113.
- 465.P** Surface Confined Conformers and Coassembly Induced Conformer Resolution, C.Z. Guan, T. Chen, Q. Chen, D. Wang, P.J. Stang, L. -J. Wan, *Langmuir*, **2011**, 27, 9994-9999.
- 466.C** Shape Persistent Two-Component 2D Networks with Atomic Size-Tunability, J. Liu, X. Zhang, D. Wang, J.Y. Wang, J. Pei, P.J. Stang, L.-J. Wan, *Chem. Asian J.* **2011**, 6, 2426-2430.
- 467.P** Self-Assembled Arene-Ruthenium-Based Rectangles for the Selective Sensing of Multi-Carboxylate Anions, V. Vajpayee, M.H. Lee, H. Kim, M. Wang, P.J. Stang, K.-W. Chi, *Chem. Eur. J.*, **2011**, 17, 7837-7844.
- 468.P** Shape-Persistent Macrocycles: Self-Assembly Reactions and Characterization by Hyperpolarized ^{129}Xe NMR Spectroscopy, K. Campbell, K.J. Ooms, M.J. Ferguson, P.J. Stang, R.E. Wasylshen, R.R. Tykwinski, *Can. J. Chem.* **2011**, 89, 1264-1276.
- 469.C** Substituent Effects on the Intramolecular Charge Transfer and Fluorescence of Bi-metallic Platinum Complexes, J.-G. Zhao, F. Yu, M.-X. Zhang, B.H. Northrop, H. Yang, P.J. Stang, K.-L. Han, *J. Phys. Chem. A*, **2011**, 115, 6390-6393.
- 470.R** Supramolecular Coordination: Self-Assembly of Finite Two- and Three-Dimensional Ensembles, R. Chakrabarty, P.S. Mukherjee, P.J. Stang, *Chem. Rev.* **2011**, 111, 6810-6918.
- 471.P** Coordination-Driven Self-Assembly and Anti-cancer Activity of Molecular Rectangles Containing Octahedral Ruthenium Metal Centers, V. Vajpayee, Y.H. Song, Y.J. Yang, S.C. Kang, H. Kim, I.S. Kim, M. Wang, P.J. Stang, K.-W. Chi, *Organometallics*, **2011**, 30, 3242-3245.
- 472.C** Post-Self-Assembly Covalent Chemistry of Discrete Multicomponent Metallosupramolecular Hexagonal Prisms, M. Wang, W.-J. Lan, Y.-R. Zheng, T.R. Cook, H.S. White, P.J. Stang, *J. Am. Chem. Soc.*, **2011**, 133, 10752-10755.
- 473.P** Designed Post-Self-Assembly Structural and Functional Modifications of a Truncated Tetrahedron, Y.-R. Zheng, W.-L. Lan, M. Wang, T.R. Cook, P.J. Stang, *J. Am. Chem. Soc.*, **2011**, 133, 17045-17055.
- 474.C** Selective Structural Transformation of Supramolecules to Multinuclear Heterosubstituted Pt Complexes via Ligand Exchange, G. Molev, A. Arif, P.J. Stang, *Tetrahedron Lett.* **2011**, 52, 6152-6156.
- 475.C** A Unique, Non-Catenane, Interlocked, Self-Assembled Supramolecular Architecture and Its Photophysical Properties, V. Vajpayee, Y.H. Song, T.R. Cook, H. Kim, Y. Lee, P.J. Stang, K.-W. Chi, *J. Am. Chem. Soc.* **2011**, 133, 19646-19649.
- 476.P** Self-assembly of Cationic, Hetero- or Homonuclear Ruthenium(II) Macrocyclic Rectangles and their Photophysical, Electrochemical and Biological Studies, V. Vajpayee, Y.H. Song, Y.J. Yang, S.C. Kang, T.R. Cook, D.W. Kim, M.S. Lah, I.S. Kim, M. Wang, P.J. Stang, K.-W. Chi, *Organometallics* **2011**, 30, 6482-6489.
- 477.C** DNA Building and Unwinding by Self-Assembled Supramolecular Heterobimetallics, A. Mishra, S. Ravikumar, S.H. Hong, H. Kim, V. Vajpayee, H.W. Lee, B.C. Ahn, M. Wang, P.J. Stang, K.-W. Chi, *Organometallics* **2011**, 30, 6343-6346.
- 478.P** Self-assembled Metalla-bowls for Selective Sensing of Multi-Carboxylate Anion, A. Mishra, V. Vajpayee, H. Kim, M.H. Lee, H. Jung, M. Wang, P.J. Stang, K.-W. Chi, *Dalton Trans.*, **2012**, 41, 1195-1201.

- 479.P** Coordination-Driven Self-Assembly of Ruthenium-Based Molecular Rectangles: Synthesis, Characterization, Photophysical and Anti-cancer Potency Studies, V. Vajpayee, Y.H. Song, Y.J. Jung, S.C. Kang, J.H. Kim, I.S. Kim, M. Wang, T.R. Cook, P.J. Stang, K.-W. Chi, Dalton Trans., **2012**, 41, 3046-3052.
- 480.P** Anti-cancer Activity of Self-Assembled Molecular Rectangles via Arene-Ruthenium Acceptors and a new Unsymmetrical Amide Ligand, A. Mishra, H. Jung, J.W. Park, H.K. Kim, H. Kim, P.J. Stang, K.-W. Chi, Organometallics, **2012**, 31, 3519-3526.
- 481.P** Coordination-Driven Self-Assembly of 2D-Metallamacrocycles Using a New Carbazole-Based Dipyridyl Donor: Synthesis, Characterization and C₆₀ Binding Study, S. Shanmugaraju, V. Vajpayee, S. Lee, K.-W. Chi, P.J. Stang, P.S. Mukherjee, Inorg. Chem., **2012**, 51, 4817-4823.
- 482.** Photophysical and Computational Investigations of Bis(phosphine) Organoplatinum (II) Metallacycles, J. Pollock, T.R. Cook, P.J. Stang, J. Am. Chem. Soc., **2012**, 134, 10607-10620.
- 483.P** Selective Detection of Multi-Carboxylate Anions Based on "Turn-on" Electronic Transfer by Self-Assembled Molecular Rectangles, A. Mishra, S. Lee, H. Kim, P.J. Stang, K.-W. Chi, Chem. Asian J., **2012**, 7, 2592-2599.
- 484.C** Abiological Self-Assembly via Coordination: Formation of 2D Metallacycles and 3D Metallacages with Well-Defined Shapes and Sizes in their Chemistry, (Editorial), P.J. Stang, J. Am. Chem. Soc., **2012**, 134, 11829-11830.
- 485.C** Post-assembly Functionalization of Organoplatinum (II) Metallacycles via Copper-free Click Chemistry, R. Chakrabarty, P.J. Stang, J. Am. Chem. Soc., **2012**, 134, 14738-14741.
- 486.P** Experimental and Theoretical Study on the Photophysical Properties of 90 ° and 60 ° Bimetallic Platinum Complexes, J.-S. Chen, G.-J. Zhao, T.R. Cook, X.-F. Sun, S.-Q. Yang, M.-X. Zhang, K.-L. Han, P.J. Stang, J. Phys. Chem. A., **2012**, 116, 9911-9918.
- 487.P** A novel projection approximation algorithm for the fast and accurate computation of molecular collision cross sections (III). Application to supramolecular coordination driven assemblies with complex shapes, S.E. Anderson, C. Bleiholder, E.R. Brocker, P.J. Stang, M.T. Bowers, Int. J. Mass Spectrom., **2012**, 330-332C, 78-84.
- 488.C** Growth Inhibitory Activity of a Bis-benzimidazole-Bridged Arene Ruthenium Metalla-Prism and Rectangle, V. Vajpayee, S.M. Lee, J.W. Park, A. Dubey, H. Kim, T.R. Cook, P.J. Stang, K.-W. Chi, Organometallics, **2013**, 32, 1563-1566.
- 489.R** Metal-Organic Frameworks and Self-Assembled Supramolecular Coordination Complexes: Comparing and Contrasting the Design, Synthesis and Functionality of Metal-Organic Materials, T.R. Cook, R.Y. Yang, P.J. Stang, Chem. Rev., **2013**, 113, 734-777.
- 490.P** Self Assembled Organometallic Arene-Ruthenium Based Metalla-Rectangles Bearing Azodipyridyl Ligands: Synthesis, Characterization and Anti-tumor Activity, V. Vajpayee, S. Lee, S.H. Kim, S.C. Kang, T.R. Cook, H. Kim, D.W. Kim, S. Verma, M.S. Lah, I.S. Kim, M. Wang, P.J. Stang, K.-W. Chi., Dalton Trans, **2013**, 42, 466-475.
- 491.C** The formation of [3] Catenanes from Ten Unique Precursors via Multi-Component Coordination Driven Self-Assembly of Metallarectangles S.Li, J. Huang, T.R. Cook, B. Pollock, H. Kim, K.-W. Chi, P.J. Stang, J. Am. Chem. Soc., **2013**, 135, 2084-2087.
- 492.P** Self-Assembly of Ambidentate-Pyridyl-Carboxylate Ligands and Octahedral Ruthenium Metal Centers: Self-Selection for a Single Linkage Isomer and Anticancer Potency Studies, H. Jung, A. Dubey, H. J. Koo, V. Vajpayee, T.R. Cook, S.S. Lee, H. Kim, S.C. Kang, P.J. Stang, K.-W. Chi, Chem Eur. J., **2013**, 19, 6709-6717.

- 493.P** Concentration Dependent Supramolecular Engineering of H-bonded Nanostructures at Surfaces: Predicting Self-Assembly in 2D, A. Ciesielski, P. Szabelski, A. Cadeddu, T.R. Cook, P.J. Stang, P. Samori, J. Am. Chem. Soc., **2013**, 135, 6942-6950.
- 494.R** Biomedical and Biochemical Applications of Self-Assembled Metallacycles and Metallacages, T.R. Cook, V. Vajpayee, M.H. Lee, P.J. Stang, K.-W. Chi, Acc. Chem. Res., **2013**, 46, 2464-2474.
- 495.P** Photophysical Properties of Endohedral Amine-Functionalized Bis(Phosphine) Pt(II) Complexes as Models of Emissive Metallacycles, J.B. Pollock, T.R. Cook, G. L. Schneider, D.A. Lutterman, A.S. Davies, P.J. Stang, Inorg. Chem., **2013**, 52, 9254-9265.
- 496.P** Photophysical Properties of Self-Assembled Multinuclear Platinum Metallacycles with Different Conformational Geometries, J.S. Chen, G. J. Zhao, T.R. Cook, K.L. Han, P.J. Stang, J. Am. Chem. Soc., **2013** 135, 6694-6702.
- 497.P** Anticancer Potency and Multi Drug Resistant Studies of Self-Assembled Arene-Ruthenium Metallarectangles, A. Dubey, S. Lee, H.J. Koo, T.R. Cook, H. Kim, S.C. Kang, P.J. Stang, K.W. Chi, Chem Eur. J., **2013**, 11622-11628.
- 498.P** Multi-Component Coordination-Driven Self-Assembly: Construction of Alkyl-Based Structures and Molecular Modeling, J.B. Pollock, T.R. Cook, G.L. Schneider, P.J. Stang, Chem. Asian J., **2013**, 8(10), 2423-2429.
- 499.P** Supramolecular polymers with tunable topologies via hierarchical coordination-driven self assembly and hydrogen bonding interfaces. X. Yan, S. Li, J.B. Pollock, T.R. Cook, J. Chen, Y. Zhang, X.Ji, Y. Yu, F. Huang, P.J. Stang, Proc. Nat. Accd. Sci., **2013**, 110(39), 15585-15590.
- 500.C** Hierarchical Self-Assembly: Well-Defined Supramolecular Nanostructures and Metallahydrogels via Amphiphilic Discrete Organoplatinum (II) Metallacycles. X. Yan, S. Li, T.R. Cook, Y. Shi, Y. Yao, J.B. Pollock, G. Yu, J. Li, F. Huang, P.J. Stang, J. Am. Chem. Soc., **2013**, 135, 14036-14039.
- 501.R** Cook, T. R., Stang, P. J., Coordination-Driven Supramolecular Macromolecules via the Directional Bonding Approach, Adv. Polymer Sci., Vol. 274; Percec, V. Ed.; Springer-Verlag: Heidelberg, Germany, 2013; in press.
- 502.C** Tunable Visible Light Emission of Self-Assembled Rhomboidal Metallacycles. J. B. Pollock, G. L. Schneider, T. R. Cook, A.S. Davies, P. J. Stang, J. Am. Chem. Soc., **2013**, 135, 13676-13679.
- 503.C** Dendronized Organoplatinum (II) Metallacyclic Polymers Constructed by Hierarchical Coordination-Driven Self-Assembly and Hydrogen Bonded Interfaces. X. Yan, B. Jiang, T.R. Cook, Y. Zhang, J. Li, Y. Yu, F. Huang, P.J. Stang, J. Am. Chem. Soc., **2013**, 135, 16813-16816.
- 504.C** Responsive Supramolecular Polymer Metallogel Constructed by Orthogonal Coordination Driven Self-Assembly and Host-Guest Interactions. X. Yan, T.R. Cook, J.B. Pollock, P. Wei, Y. Zhang, Y. Yu, F. Huang, P.J. Stang, J. Am. Chem. Soc., **2014**, 136, 4460-4463.
- 505.C** Molecular Self-Assembly of Arene-Ru Based Interlocked Catenane Metallacages. A. Mishra, A. Dubey, J. Min, H. Kim, K.-W. Chi, P.J. Stang, Chem. Commun., **2014**, 50(56), 7542-7544.
- 506.C** Self-Assembly of Triangular and Hexagonal Molecular Necklaces. S. Li, J. Huang, F. Zhou, T.R. Cook, X. Yan, Y. Ye, B. Zhu, B. Zheng, P.J. Stang, J. Am. Chem. Soc., **2014**, 136, 5908-5911.
- 507.P** Photoinduced transformations of stiff-stilbene-based discrete metallacycles to metallosupramolecular polymers, X. Yan, J.-F. Xu, T.R. Cook, F. Huang, Q.-Z. Yang, C.-H. Tung, P.J. Stang, Proc. Nat. Acad. Sci., **2014**, 111, 8717-8722.

- 508.P** Synthesis and Photophysical Studies of Self-Assembled Multicomponent Supramolecular Coordination Prisms Bearing Porphyrin Faces, Y. Shi, I. S.-M. Santos, C. Cao, T.R. Cook, P.J. Stang, Proc. Nat. Acad. Sci., **2014**, 111, 9390-9395.
- 509.P** Self-assembled supramolecular hetero-bimetallic cycles for anticancer potency via intracellular release, A. Mishra, S.C. Lee, N. Kaushik, T.R. Cook, E.H. Choi, N.K. Kaushik, P.J. Stang, K.-W. Chi, Chem. Eur. J., **2014**, 29, 14410-14420.
- 510.P** Self-Assembly of New Arene-Ruthenium Rectangles Containing Triptycene Building Blocks and Their Application in Fluorescent Detection of Nitro Aromatics, A. Dubey, A. Mishra, J. Wook Min, M.M. Lee, H. Kim, P.J. Stang, K.-W. Chi, Acta. Inorg. Chem., **2014**, 423, 326-331.
- 511.P** A Discrete Amphiphilic Organoplatinum (II) Metallacycle with Tunable Lower Critical Solution Temperature Behavior, P. Wei, T.R. Cook, X. Yan, F. Huang, P.J. Stang, J. Am. Chem. Soc., **2014**, 136, 15497-15500.
- 512.P** Saccharide-Functionalized Organoplatinum (II) Metallacycles, F. Zhou, S. Li, T.R. Cook, Z. He, P.J. Stang, Organometallics, **2014**, 34, 7019-7022.
- 2015-**
- 513.P** In Vivo Anti-Cancer Activity of Rhomboidal Pt(II) Metallacycles, I.V. Grishagin, J.B. Pollock, S. Kushal, T.R. Cook, P.J. Stang, B.Z. Olenyuk, Proc. Nat. Acad. Sci., **2014**, 111, 18448-18453.
- 514.R** Recent Developments in the Preparation and Chemistry of Metallacycles and Metallacages via Coordination, T.R. Cook, P.J. Stang, Chem. Rev., **2015**, 115, 7001-7045.
- 515.P** Photophysical Properties of 3-Dimensional Self-Assembled Cage: Visible Light Driven Core-To-Cage Charge Transfer, Y. Yang, J.-S. Chen, J.-Y. Liu, G.-J. Zhao, L. Liu, K.-L. Han, T.R. Cook, P.J. Stang, J. Phys. Chem. Letters, **2015**, 6, 1942-1947.
- 516.P** Highly Emissive Organoplatinum(II) Metallacages, X. Yan, T.R. Cook, P. Wang, F. Huang, P.J. Stang, Nature Chem., **2015**, 7, 342-348.
- 517.C** Selective Formation of Heterometallic Ru-Ag Supramolecules via Stoichiometric Control of Multiple Different Tectons, Y.J. Park, J. Y. Ryu, H. Begum, M.H. Lee, P.J. Stang, J. Am. Chem. Soc., **2015**, 137, 5863-5866.
- 518.C** Formation of halogen bond-based 2D supramolecular assemblies by electric manipulation, F.-N. Zheng, X.-H. Liu, T. Chem, H.-J. Yan, T.R. Cook, P.J. Stang, J. Am. Chem. Soc., **2015**, 137, 6128-6131.
- 519.C** Self-Assembly of [3] Catenanes and a [4] Molecular Necklace Based on a Cryptand/Paraquat Recognition Motif, Ye, Y.; Wang, S.P.; Zhu, B.; Cook, T.; Wu, J.; Li, S.; Stang, P.J., Org. Lett., **2015**, 17, 2804-2807.
- 520.C** Self-Assembly of Chiral Metallacycles and Metallacages from a Directionally Adaptable BINOL-Derived Donor, Ye, Y.; Cook, T.R.; Wang, S.P.; Wu, J., Li, S.; Stang, P.J., J. Am. Chem. Soc., **2015**, 137, 11896-11899.
- 521.P** Ruthenium-Cobalt Bimetallic Supramolecular Cages via Less Symmetric Tetrapyrrolyl Metalloligand and the Effect of Spacer Units, Ryu, J.Y.; Park, Y.J., Park, M.M., Saha, M.L., Stang, P.J., Lee, J., J. Am. Chem. Soc., **2015**, 137, 13018-13023.
- 522.C** Coordination-driven Self-Assembly of Fullerene-Functionalized Pt(II) Metallacycles, Paven, V.S., Neti, K., Saha, M.L., Yan, X., Zhou, Z., Stang, P.J., Organometallics, **2015**, 34, 4813-4815.

- 523.P** Anti-cancer activity and autophagy involvement of self-assembled arene-ruthenium metallacycles, A. Dubey; Y. Jeong; J.-H. Jo; S.K. Woo; D. Kim; H. Kim; S.C. Kang; P.J. Stang; K.-W. Chi; Organometallics, **2015**, 34, 4507-4514.
- 524.P** Photo-Reversible [2] Catenane via the Host-Guest Interactions between a Palladium Metallacycle and β -Cyclodextrin, D. Zhang, Y. Nie, M.L. Saha, Z. He, L. Jiang, Z. Zhou, P.J. Stang, Inorg. Chem., **2015**, 54, 11807-11812.
- 525.P.** A Suite of Tetraphenylethylene-Based Discrete Organoplatinum (II) Metallacycles: Controllable Structure and Stoichiometry, Aggregation-Induced Emission and Explosives Sensing, X. Yan, H. Wang, C.E. Hauke, T.R. Cook, M. Wang, M.L. Saha, Z. Zhou, M. Zhang, X. Li, F. Huang, P.J. Stang, J. Am. Chem. Soc., **2015**, 137, 15276-15286.
- 526.C** Atomically Precise Prediction of 2D Self-Assembly of Weakly Bonded Nanostructures: STM Insight into Concentration-Dependent Architectures, M.E. Gorah, A. Dianet, A. Cadeddu, R. Gutierrez, M. Cecchini, T.R. Cook, A. Ciesielski, P.J. Stang, G. Cumiberti, P. Samori, Small, **2016**, 12, 343-350.
- 527.C** Engineering Functionalization in a Supramolecular Polymer: Hierarchical Self-Organization of Triply Orthogonal Non-Covalent Interactions on a Supramolecular Coordination Complex Platform, Z. Zhou, X Yan, T.R. Cook, M. L. Saha, P.J. Stang, J. Am. Chem. Soc., **2016**, 138, 806-809.
- 528.C** Light-Emitting Superstructures with Anion Effect: Coordination-Driven Self-Assembly of Pure Tetraphenylethylene Metallacycles and Metallacages, X. Yan, M. Wang, T.R. Cook, M. Zhang, M.L. Saha, Z. Zhou, X. Li, F. Huang, P.J. Stang, J. Am. Chem. Soc., **2016**, 138, 4580-4588.
- 529.P** A Four Component Heterometallic Cu-Pt Quadrilateral via Self-Sorting, M.L. Saha, Z. Zhou, P.J. Stang, Chem. Asian J., **2016**, 11, 2662-2666.
- 530.C** Supramolecular Copolymer Constructed by Hierarchical Self-Assembly of Orthogonal Host-Guest H-Bonding and Coordination Interactions, P. Wei, X. Yan, T.R. Cook, X. Ji, P.J. Stang, F. Huang, ACS Macro Letters, **2016**, 5, 671-675.
- 531.C** Immobilizing Tetraphenylethylene into Fused Metallacycles: Shape Effects on Fluorescence Emission, Z. Zhou, M. Zhang, X. Yan, M. Wang, M.L. Saha, X. Li, P.J. Stang, J. Am. Chem. Soc., **2016**, 138, 13131-13134.
- 532.C** Hierarchical Self-Assembly of Responsive Organoplatinum (II) Metallacycle-TMV Complexes with Turn-On Fluorescence, Y. Tian, X. Yan, M.L. Saha, Z. Niu, P.J. Stang, J. Am. Chem. Soc., **2016**, 138, 12033-12036.
- 533.P** Enhanced Conversion Efficiencies in Dye-Sensitized Solar Cells Achieved through Self-Assembled Platinum (II) Metallacages, Z. He, Z. Hou, Y. Xing, X. Liu, X. Yiu, M. Que, J. Shao, W. Que, P.J. Stang, Nature Comm., **2016**, 6, 29476.
- 534.R** Photophysical Properties of Pt(II)-Compounds and Derived Self-Assembled Metallacycles and Metallacages: Fluorescence and its Applications, P.J. Stang, M.L. Saha, X. Yan, Accounts Chem. Res., **2016**, 49, 2527-2539.
- 535.P** Fluorescent Metallacycle-Cored Polymers via covalent Linkage and Their Use as Contrast Agents for Cell Imaging, M. Zhang, S. Li, X. Yan, Z. Zhou, M.L. Saha, Y. Wang, P.J. Stang, Proc. Nat. Acad. Sci., **2016**, 113, 11100-11105.

- 536.P** A Tetraphenylene-based Highly Emissive Metallocage as a Component of Theranostic Supramolecular Nanoparticles, G. Yu, T.R. Cook, Y. Li, X. Yan, D. Wu, L. Shao, G. Tang, F. Huang, X. Chen, P.J. Stang, Proc. Nat. Acad. Sci., **2016**, 113(48), 13720-13725.
- 537.P** Enhanced Conversion Efficiencies in Dye-Sensitized Solar Cells Achieved through Self-Assembled Platinum (II) Metallacages, Z. He, Z. Hou, Y. Xing, X. Liu, X. Yin, M. Que, J. Shao, W. Que, P.J. Stang, Sci. Rep., **2016**, (6), 29476.
- 538.P** Self-Sorting of Multicomponent Pt(II) Metallacages, M. Zhang, M.L. Saha, P.J. Stang, Structural Chemistry, **2017**, 28(2), 453-459.
- 539.C** Fe-Pt Twisted Heterometallic Bicyclic Supramolecules via Multicomponent Self-Assembly, H. Sepehrpour, M.L. Saha, P.J. Stang, J. Am. Chem. Soc., **2017**, 139, 2553-2556.
- 540.P** Multicomponent Platinum (II) Cages with Tunable Fluorescence Emission and Amino Acid Sensing, M. Zhang, M.L. Saha, M. Wang, Z. Zhou, B. Song, C. Lu, X. Yan, X. Li, F. Huang, S. Yin, P.J. Stang, J. Am. Chem. Soc., **2017**, 139, 5067-5074.
- 541.C** Direct Observation of Triplet Absorption-Emission Reversal in a Fullerene Functionalized Pt(II) Metallacycle, R. Zhang, Y. Yang, V. Neti, H. Sepehrpour, P.J. Stang, K. Han, J. Phys. Chem.C, **2017**, 121, 14975-14980.
- 542.P** Unique Ruthenium Bimetallic Supramolecular Cages from C_4^- Symmetric Tetrapyridyl Metalloligands, Ryu, J.Y.; Wi, E-H., Pait, M. Lee, S., Stang, P.J., Lee, J., Inorg. Chem., **2017**, 56, 5471-5477.
- 543.C** Self-Assembly of Metal-Ion-Responsive Supramolecular Coordination Complexes and Their Photophysical Properties, Z. He, M. Li, W. Que, P.J. Stang, Dalton Trans., **2017**, 46, 3120-3124.
- 544.P** Metallacycle-cored Supramolecular Assemblies with Tunable Fluorescence Including White-light Emission, M. Zhang, S. Yin, J. Zhang, Z. Zhou, M.L. Saha, C. Lu, P.J. Stang, Proc. Nat. Acad. Sci., **2017**, 114(12), 3044-3049.
- 545.P** Pyrene Functionalized Metallosupramolecular Rhomboids and their Photophysical Properties, S. Kobayashi, M.L. Saha, P. J. Stang, J. Organomet. Chem., **2017**, 847, 294-297.
- 546.P** Near-Infrared Emissive Discrete Platinum (II) Metallacycles: Synthesis and Application in Ammonia Detection, Z. Li, X. Yan, F. Huang, H. Sepehrpour, P.J. Stang, Org. Lett., **2017**, 19, 5728-5731.
- 547.P** Pt(II)-Based Convex Trigonal Prismatic Cages via Coordination-Driven Self-Assembly and C_{60} Encapsulation, M. Zhang, H. Xu, M. Wang, M.L. Saha, Z. Zhou, X. Yan, H. Wang, X. Li, F. Huang, P. J. Stang, Inorg. Chem., **2017**, 56, 12498-12504.
- 548.P** Antitumor Activity of a Unique Polymer that Incorporates a Fluorescent Self-Assembled Metallacycle, G. Yu, M. Zhang, M. L. Saha, Z. Macey, X. Yan, J. Chen, Y. Yao, Z. Zhou, Y. Liu, C. Gao, F. Huang, X. Chen, P. J. Stang, J. Am. Chem. Soc., **2017**, 139, 15940-15949.
- 549.** Peer Review at the Journal of the American Chemical Society, P.J. Stang, J. Am. Chem. Soc., **2017**, 139, 16431-16432 (Editorial).
- 550.P** Cationic Ti Complexes with Three [N,O] Type Tetrazolyl Ligands via TiFe Transmetalation within Fe Metallascorpionate Complexes, Y. J. Park, J. Y. Ryu, S. Hwang, K. H. Park, J. M. Lee, S. Cho, M. Saha, P. J. Stang, J. Lee, Inorg. Chem., **2017**, 56, 14060-14068.

- 551.P** Alanine-Based Chiral Metallogels via Supramolecular Coordination Complex Platforms: Metallogelation Induced Chirality Transfer, Y. Sun, S. Li, Z. Zhou, M. L. Saha, M. Zhang, X. Yan, S. Datta, D. Tian, H. Wang, L. Wang, X.-P. Li, M.-H. Liu, M. Li, P. J. Stang, *J. Am. Chem. Soc.*, **2018**, 140, 3257-3263.
- 552.P** Concentration-dependent Supramolecular Patterns of C₃ and C₂- Synthetic Molecules at the Solid/Liquid Interface, M. E. Garah, T. R. Cook, H. Sepehrpour, A. Ciesielski, P. J. Stang, P. Samori, *Colloids and Surfaces B: Biointerfaces*, **2018**, 168, 211-216.
- 553.P** Supramolecular Pt (II) and Ru (II) Trigonal Prismatic Cages Constructed with Tris(pyridyl)borane Donor, J. Y. Ryu, J. M. Lee, N. V. Nghia, K. M. Lee, S. Lee, M. H. Lee, P. J. Stang, J. Lee, *Inorg. Chem.*, **2018**, 57, 11696-11703.
- 554.P** Tetra-Hexa-Dodeca-Nuclear Ir Supramolecules via Bridge-Driven Self-Assembly of Tetrazolyl Ligands, S.G. Lee, J. Y. Yeon, P. J. Stang, J. Lee, *Inorg. Chem.*, **2018**, 57, 8054-857
- 555.P** Transparency in Authors' Contributions and Responsibilities to Promote Integrity in Scientific Publication, M. McNutt, M. Bradford, J. Drazen, B. Hanson, B. Howard, K. H. Jamieson, V. Kiermer, M. Magoulias, E. Marcus, B. K. Pope, R. Schekman, S. Swaminathan, P. J. Stang, I. Verma, *Proc. Nat. Acad. Sci.*, **2018**, 115, 2557-2560
- 556.P** A Heterometallic Ru-Pt Metallacycle for Two-Photon Photodynamic Therapy, Z. Zhou, T. Liu, T. W. Reese, H. Wang, X. Li, H. Chao, P. J. Stang, *Proc. Nat. Academy. Sci.*, **2018**, 115, 5664-5669
- 557.P** Orthogonal Self-Assembly of an Organoplatinum (II) Metallacycle and Cucurbit [8] uril That Delivers Curcumin to Cancer Cells, S. Datta, S.K. Misra, M.L.Saha, N. Lahiri, J. Louie, D. Pan, P.J. Stang, *Proc. Nat. Acad. Sci.*, **2018**, 115, 8087-8092
- 558.** Simplified Submission Requirements for Authors of JACS Communications, P.J. Stang, S. Krane, *J. Am. Chem. Soc.*, **2018**, 140, 4467 (Editorial)
- 559.P** Dimonoid Supramolecular Coordination Frameworks From Discrete Adamantanoid Platinum (II) Cages, L. Cao, P. Wang, X. Miao, Y. Dong, H. Wang, H. Duan, Y. Yu, X. Li, P.J. Stang, *J. Am. Chem. Soc.*, **2018**, 140, 2005-2011
- 560.P** A Fluorescent Metallacage-Cored Supramolecular Polymer Gel Formed by Orthogonal Metal-Coordination and Host-Guest Interactions, C. Lu, M. Zhang, D. Tang, X. Yan, Z-Y, Zhang, Z. Zhou, H. Wang, X. Li, S. Yin, H. Sepehrpour, P.J. Stang, *J. Am. Chem. Soc.*, **2018**, 140, 7674-7680
- 561.P** A Discrete Organoplatinum (II) Metallacage as a Multimodality Theranostic Platform for Cancer Photochemotherapy, G. Yu, S. Yu, M. L. Saha, J. Zhou, T. R. Cooke, B. C. Yung, J. Chen, Z. Mao, F. Zhang, Z. Zhou, Y. Liu, L. Zhao, S. Wang, C. Gao, F. Huang, P.J. Stang, X. Chen, *Nature Comm.*, **2018**, 9, 4336
- 562.P** Temperature-Responsive Fluorescent Organoplatinum (II) Metallacycles, J.-H., Hong, Y. Sun, Z.-L., Gong, Z.-Yu, Li, Z. Zhou, H. Wang, X. Li, M.L. Saha, Y.-W. Zhong, P.J. Stang, *J. Am. Chem. Soc.*, **2018**, 140, 7723-7729
- 563.R** Hierarchical Assemblies of Supramolecular Coordination Complexes, P. J. Stang, D. Sougatta, S. Manik, *Acc. Chem. Res.*, **2018**, 51, 2047-2063

- 564.P** Self-Assembly of Metallacages into Multidimensional Suprastructures with Tunable Emissions. Y. Sun, Y. Yao, W. Fu, H. Wang, C. Chen, M. L. Saha, M. Zhang, S. Datta, Z. Zhou, H. Yu, X. Li, P. J. Stang, J. Am. Chem. Soc., **2018**, 140, 12819-12828
- 565.C** Hierarchical Self-Assembly of a Water Soluble Organoplatinum (II) Metallacycle into Well-Defined Nanostructures, S. Datta, M. L. Saha, N. Lahiri, G. Yu, J. Louie, P. J. Stang, Org. Lett., **2018**, 20, 7020-7023
- 566.P** Metallacycle-Coded Supramolecular Polymers: Fluorescence Turning by Variation of Substituents, L. Xu, X. Shi, Z. Zhou, T. We, J. Zhans, Q. Dinjin, M. Manik, S. Yin, P. J. Stang, J. Am. Chem. Soc., **2018**, 140, 16920-16924
- 567.P** Assembly of metallacages into Soft Superstructures with Dimensions of up to Microns and the Formation of Composite Materials, Y. Sun, S. Jiang, X. Li, Z. Wang, R. Ni, H. Wang, P. J. Stang, F. Zhang, J. Am. Chem. Soc., **2018**, 140, 17297 – 17307
- 568.P** Rhomboidal PH(II) metallacycle-based NIR-II Theranostic nanoprobe for tumor diagnosis and image-guided therapy, Y. Sun, F. Ding, C. Li, M. Pu, Y. Xu, Y. Zhan, X. Lu, M. Li, G. Yang, Y. Sun, P. J. Stang, Proc. Nat. Academy of Science, **2019**, 116(6), 1968-1973.
- 569.P** Self – Assembled Ruthenium (II) Metallacycles and Metallacages with Imidazole – based Ligands and their in Vitro Anticancer Activity, Y. Zhao, L. Zhang, X. Li, Y. Shi, R. Ding, M. Teng, P. Zhang, C. Cao, P. J. Stang, Proc. Nat. Acad. Sci., **2019**, 116 (10), 4090-4098.
- 570.P** Coordination – Driven Self-Assembled Metallacycles Incorporating Pyrene: Fluorescence Mutability, Tunability and Aromatic Amid Sensing, X. Chang, Z. Zhou, C. Shang, G. Wang, Z. Wang, Y. Qi, Z -Y. Li, H. Wang, L. Cao, X. Li, F. Fang, P. J. Stang, J. Am. Chem. Soc. **2019**, 141, 1757-1765.
- 571.R** Soft Materials with Diverse Suprastructures via the Self-Assembly of Metal-Organic Complexes, Y. Sun, C. Chen, P.J. Stang, Acc. Chem. Res., **2019**, 52, 802-817.
- 572.P** Diamonoid Frameworks via Supramolecular Coordination: Structural Characterization, Metallogel Formation and Absorption Study, L. Cao, P. Wang, X. Miao, H. Duan, R. Ma, B. Zhang, B. Wu, P. J. Stang, Inorg. Chem., **2019**, 58, 6268-6275.
- 573.P** Understanding the Effects of Coordination and Self-Assembly on an Emissive Phenothiazine, Z.Zho, C.E. Hauke, B. Song, X. Li, P.J. Stang, T.R. Cook, J. Am. Chem. Soc., **2019**, 141, 3717-3722.
- 574.P** Host-guest Complexation-Mediated Codelivery of Anticancer Drug and Photosensitizer for Cancer Photochemotherapy, G. Yu, B. Zhu, L. Shao, J. Zhou, M.L. Saha, B. Shi, Z. Zhang, T. Hong, S. Li, X. Chen, P.J. Stang, Proc. Nat. Academy of Sciences, **2019**, 116, 6618-6623.
- 575.P** Designed Conformation and Fluorescence Properties of Self-Assembled Phenazine-Cored Platinum (II) Metallacycles, Z. Zhou, D.G. Chen, M.L. Saha, H. Wang, X. Li, P.T. Chou, P.J. Strang, J. Am. Chem. Soc., **2019**, 141, 5535-5543.
- 576.P** Spontaneous Formation of a Cross-Linked Supramolecular Polymer Both in the Solid State and in Solution Driven by Platinum (II) Metallacycle-Based Host-guest Interactions, B. Shi, Y. Liu, H. Zhu, R.T. Vanderlinden, L. Shangguan, R. Ni, K. Acharya, J. Tang, Z. Zhou, X. Li, F. Huang, P. J. Stang. J. Am. Chem. Soc., **2019**, 141, 6494-6498.

- 577.P** Formation of a Supramolecular Polymer Adhesive via the Combination of Water-Induced Hydrogen Bonding and Metal-Coordination, Q. Zhang, T. Li, A.J. Duan, S. Dong, W. Zhao, P. J. Stang, J. Am. Chem. Soc. **2019**, 141, 8058-8063.
- 578.P** Self-Assembled Amphiphilic Janus Double Metallacycle, W. Wang, Z. Zhizhun, J. Zhou, B. Shi, B. Song, X. Li, F. Huang, P. J. Stang, Inorg. Chem., **2019**, 58, 7141-7145.
- 579.P** Endo- and Exo-Functionalized Tetraphenylene M₁₂L₂₄Nanopheres: Fluorescence Emissions Inside a Confined Space, X. Yan, P. Wei, Y. Liu, M. Wang, M. L. Saha, Z. Zhou, Z. Ann, X. Li, P. J. Stang, J. Am. Chem. Soc. **2019** 141, 9673-9679.
- 580.P** Spontaneous Supramolecular Polymerization Driven by Discrete Platinum Metallacycle-Based Host-Guest Complexation, B. Shi, Z. Zhun, R.T. Vanderlinden, G. Yu, J-M. Tang, X. Yan, K. Acharyya, H. Sepehrpour, P. J. Stang, J. Am. Chem. Soc., **2019**, 141, 11837-11841.
- 581.P** Melanin-dot-mediated delivery of discrete metallacycle for NIR-II/photoacoustic dual-model imaging-guided chemo-photothermal synergistic therapy, Y. Sun, F. Ding, Z. Chen, R. Zhang, C. Li, Y. Xu, Y. Zhang, R. Ni, X. Li, G. Yang, Y. Sun, P.J. Stang, Proc. Nat. Academy of Sciences, **2019**, 116,16729-16735.
- 582.P** Biomedically Relevant Self-Assembled Metallacycles and Metallacages, H. Sepehrpour, W. Fu, Y. Sun, P. J. Stang, J. Am. Chem. Soc., **2019**, 141, 14005-14020.
- 583.P** Structural Characterization of Intact Coordination -Driven Self Assembly Ions via Traveling Wave Ion Mobility-Mass Spectrometry, C.S. Mallis, M. L. Saha, P. J. Stang, D. H. Russell, J. Am. Soc. Mass Spec. **2019**, 30, 1654-1662.
- 584.P** Endo- and Exo-Functionalized Tetraphenylene M₁₂L₂₄Nanopheres: Fluorescence Emissions Inside a Confined Space, X. Yan, P. Wei, Y. Liu, M. Wang, M. L. Saha, Z. Zhou, Z. Ann, X. Li, P. J. Stang, J. Am. Chem. Soc. **2019** 141, 9673-9679.
- 585.C** Metal-Organic Pt(II) Hexagonal Prism Macrocycles and Their Photophysical Properties, J-H. Tang, R. Ni, Y.-Q. He, R.T. Vanderlinden, Y. Li, B. Shi, Z.-Y. Li, H. Wang, X. Li, Y. Sun, Y.-W. Zhong, P.J. Stang, Inorg. Chem., **2019**, 58, 13376-13381.
- 586.P** Self-Assembled Fluorescent Pt (II) Metallacycles as Artificial Light Harvesting Systems, K. Acharyya, S. Bhattacharyya, H. Sepehrpour, S. Chakraborty, S. Lu, B. Shi, X.Li, P.S. Mukherjee, P.J. Stang, J. Am. Chem. Soc. **2019**, 141, 14565-14569.
- 587.P** A Self-Assembled Ru-Pt Metallacage as a Lysosome Targeting Photosensitizer for Two-Photon Photodynamic Therapy, Z. Zhou, J. Liu, J. Huang, T.W. Rees, Y. Wang, H. Wang, X. Li, H. Chao, P.J. Stang, Proc. Nat. Acad. Sci. **2019**, 116, 20296-20302.
- 588.P** Self-Healing Heterometallic Supramolecular Polymers Constructed by Hierarchical Assembly of Triply Orthosoud Interactions with Tuneable Physical Properties, Q. Zhang, D. Tang, J. Zhang, R. Ni, L. Xu, T. He, X. Li, X. Li, H. Qiu, S. Yin, P.J. Stang, J. Am. Chem. Soc., **2019**, 141, 17909-17917.

PETER STANG – VITA

- 589.P** Single-molecule level control of host-guest interactions in metallacycle – C₆₀ complexes, J.H. Tang, Y. Li, Q. Wu, Z. Wang, S. Hou, K. Tang, Y. Sun, H. Wang, H. Wang, C. Lu, X. Wang, X. Li, D. Wang, J. Yao, C.J. Lambert, N. Tao, Y.W. Zhong, P.J. Stang, *Nature Comm.*, **2019**, 10, 4599.
- 590.P** Temperature and Mechanical Force Responsive Self-Assembled Rhomboidal Metallacycle, Z. Chen, J. Tang, W. Chen, Y. Xu, H. Wang, H. Sepehrpour, G-J. Cheng, X. Li, Y. Sun, P.J. Stang, *Organometallics*, **2019**, 38, 4244-4249.
- 591.C** Membrane Interaction-Enhanced Photodynamic Investigation of Bacteria by a Metallacycle and TAT-decorated virus coat protein, S. Gao, X. Yan, G. Xie, M. Zhu, X. Ju, P.J. Stang, Y. Tian, Z. Niu, *Proc. Nat. Acad. Sci.*, **2019**, 116, (47), 23437-23443.
- 592.P** Coordination Assisted Reversible Photoswitching of Spiropan Based Platinum Macrocycles, S. Bhatlacharyya, M. Maity, A. Chowdhury, M.S. Saha, S.M. Panja, P.J. Stang, P.S. Mukherjee, *Inorg. Chem.*, **2020**, 50, 2083-2091.
- 593.P** Capture and release of Singlet Oxygen in Coordination Driven Self-Assembled Organoplatinum (II) Metallacycles, H.Q. He, W. Fudichar, J. H. Tang, H. Wang, X. Li, J. Hun, Z. Wang, M. Liu, Y. W. Zhong, T. Linker, P.J. Stang, *J. Am. Chem. Soc.*, **2020**, 142, 2601-2608.
- 594.P** Self-Assembly of Porphyrin-Containing Metallacages and Cancer Photodynamic Therapy, X. Jiang, Z. Zhou, H. Yang, C. Than, H. Yu, L. Wojtas, M. Zhang, P.J. Stang, Z. Mao, M. Wang, *Inorg. Chem.* **2020**, 29, 7380-7388.
- 595.P** Recent Developments in the Construction and Applications of Platinumbased Metallacycles and Metallages via Coordination, S. Yan, C. Chongyi, J. Bolium, P.J. Stang, *Chem. Soc. Rev.* **2020**, 49, 3889-3919.
- 596.P** Polymetric Nanoparticles Integrated by Discrete Organoplatinum (II) Metacycles via Stepwise Post-Assembly Polymerization for Synergistic Cancer Therapy, J. Zhou, G. Yu, J. Yang, B. Shi, B. Ye, M. Wang, F. Huang, P.J. Stang, *Chem. Materials*, **2020**, 32, 4564573.
- 597.P** Chiral Metallacycles as Catalysts for Asymmetric Conjugate Addition of Styrylboronic Acids to α , β -Enones, T. Hong, Z. Zhang, Y. Sun, J.-T. Tao, J.-D. Tang, C. Xie, M. Wang, F. Chen, S. Li, P.J. Stang, *J. Am. Chem. Soc.*, **2020**, 142, 10244-10249.
- 598.P** Thermo/Anion Dual-Responsive Supramolecular Organoplatinum-Crown Ether Complex, D. Li, Q. Zhang, W. Zhao, S. Dong, T. Li, P.J. Stang, *Org. Lett.* **2020**, 22, 4289-4293
- 599.P** Hierarchical Self-Assembly of a Pyrene-Based Discrete Organoplatinum (II) Double-Metallacycle with Triflate Anions via Hydrogen Bonding and Its Tunable Fluorescence Emission, Z. Yang, Y. Wang, X. Liu, R. Vanderlinden, R. Ni, X. Li, P.J. Stang, *J. Am. Chem. Soc.*, **2020**, 142, 13689-13694.
- 600.C** Challenges and Opportunities in Design Perovskite Nanocrystal Heterostructures, P. Kamat, N. Pradhan, K. Schanze, P. Weiss, J. Buriak, P.J. Stang, T.W. Odom, G. Hartland, *ACS Energy Lett.*, **2020**, 5, 2253-2255.
- 601.C** Self-Assembly of Porphyrin-Based Metallacages into Octahedra, Y. Sun, C. Chen, J. Liu, L. Liu, W. Tuo, H. Zhu, S. Lu, X. Li, P.J. Stang, *J. Am. Chem. Soc.* **2020**, 42, 17903-17907.
- 602.P** Self-Assembled Perylene Bisimide-Cored Trigonal Prism as an Electron-Deficient Host for C₆₀ and C₇₀ Driven by “Like Dissolves Like”, X. Chang, S. Lin, G. Wang, C. Shang, Z. Wang, K. Liu, Y. Fang, P.J. Stang, *J. Am. Chem. Soc.* **2020**, 142, 15950-15960.
- 603.P** Rational design and bulk synthesis of water-containing supramolecular Polymers, T. Li, Q. Zhang, D. Li, S. Dong, W. Zhao, P.J. Stang, *ACS, Appl. Mater. and Interfaces*, **2020**, 12, 38700-38707.

PETER STANG – VITA

- 604.P** Pillar[5]arene-Containing Metallacycles and Host-Guest Interaction Caused Aggregation-induces Emission Enhanced Platforms, W. Tuo, Y. Sun, S. Lu, X. Li, Y. Sun, P.J. Stang, *J. Am. Chem. Soc.*, **2020**, *142*, 16930-16934.
- 605.P** Dual-Emissive Pt(II)Metallacage with a Sensitive Oxygen Response for Imaging of Hypoxia and Imaging-Guided Chemotherapy, H. Zhu, Q. Li, B. Shi, F. Ge, Y. Liu, Z. Mao, H. Zhu, S. Wang, G. Yu, F. Huang, P.J. Stang, *Angew. Chem. Int. Ed.*, **2020**, *59*, 20208-20214.
- 606.P** Divergent and Stereoselective Synthesis of Tetraarylethylenes from Vinylboronates, M. Zhang, Y. Yao, P.J. Stang, W. Zhao, *Angew. Chem. Int. Ed.*, **2020**, *59*, 20090-20098.
- 607.P** Formation of Planar Chiral Platinum Triangles via Pillar[5]arene for Circularly Polarized Luminescence, H. Zhu, Q. Li, B. Shi, M. Xingy, Y. Sun, S. Lu, Shuai, L. Shangguan, X. Li, F. Huang, P.J. Stang, *J. Am. Chem. Soc.* **2020**, *142*, 17340-17345.
- 608.P** Double-layered Supramolecular prism self-assembled by geometrically non-equivalent tetratopic subunits, X. Li, H. Wang, L.-P. Zhou, Y. Zhang, K. Wang, B. Song, Q.-F Sun, B. Xu, H.B. Yang, A.C.H. Su, Y.T. Chang, J. Sessler, Y. Jiao, P.J. Stang, X.Li, *Angew. Chem. Int. Ed.*, **2020**, *59*, 20090-20098.
- 609.P** β -Cyclodextrin Modified Pt(II)metallacycle-Based Supramolecular Hyperbranched Polymer Assemblies for DOX Delivery to Liver Cancer Cell, W. Chen, X. Li, E. Liu, J. He, M. Qi, Y. Sun, B. Shi, H. Sepehrapour, H. Li, W. Tian. P.J. Stang, *Proc. Nat. Acad. Sci.*, **2020**, *117*, 30942-30948.
- 610.P** Multicomponent Coordination-Driven Self-Assembly of Fused C_{3v} Polygons, Z. Zang, T. Hong, S. Li, M. Crowley, T. Cook, J. Pollock, P.J. Stang, *Organometallics*, **2021**, *40*, 1-5.
- 611.P** Self-assembly of Double Helical Supramolecular Nanowires with non-Natural Parastichy Pattern, H. Wang, K. Wang, Y. Xu, S. Chen, M. Hart, L. Wojtas, L.-P. Zhou, L. Gan, X. Yan, Y. Li, J. Lee, X.-Q. Wang, C.-W. Zhang, S. Zhou, T. Zhai, H.-B. Yang, M. Wang, Q.-F. Sun, B. Xu, Y. Jiao, P.J. Stang, J.L. Sessler, X. Li, *Nature Comm.*, **2021**, in press.
- 612.P** Hierarchical Self-Assembly of Metal-Organic Cage into Supramolecular Nanoparticles for Genome-Editing Protein Delivery, J. Liu, T. Luo, W. Cai, Y. Xue, Y. Jiang, L. Mao, P.J. Stang, M. Wang, *Angew. Chem. Int. Ed.*, **2021**, In press.
- 613.P** Enzyme-Responsive Nanostructures Constructed by Organoplatinum (II) Coordination-Driven Self-Assembly and Cyclodextrin-Based Host-Guest Interactions, B. Shi, Z. Li, Y. Li, L. Shangguan, Q. Chen, H. Zhu, Y. Liu, W. Wang, X. Yan, F. Huang, P.J. Stang, *Proc. Nat. Acad. Sci.*, **2021**, Submitted.
- 614.P** A Cyclic Three-Dimensional Bis[2]catenane Metallacage, Y. Wang, Y. Zhang, Z. Zhou, R. Vanterlinden, B. Li, B. Song, X. Li, L. Cui, J. Li, X. Jia, J. Fang, C. Li, P.J. Stang, *Nature Comm.*, **2021**, Submitted.
- 615.P** Anthracene-Triphenylamine-Based Platinum (II) Metallacages as Synthetic Light-Harvesting Assembly, Y. Li, S.R. Rajasree, G. Y. Lee, J. Y., J.-H. Tang, R.Ni, X, Li, K. Houk, P. Denia, P. J. Stang, *Inorg. Chem.* **2021**, Submitted.
- 616.P** Light Emitting Self-Assembled Metallacages, J. Zhao, Z. Zhou, G, Li, P. J. Stang, X. Yan, *Proc. Nat. Acad. Sci.*, **2021**, Submitted.

PETER STANG – VITA

PATENTS

1. Precursors for and Synthesis of Mono- and Difunctionalized Acetylenes and Difunctional 1,3- Diynes. P.J.Stang, C.M. Crittall, Bobby L. Williamson, V.V. Zhandkin, U.S. Patent 5,286,901, February 1994
2. Triflate-Mediated Preparation and Use of Iodine Compounds, P. J. Stang, Paul M. Gallop, WY-1995016671-41, June, 1995