

ADDRESS

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EDUCATION

| | | | |
|---------|------------------------|------------------------------------|------|
| Ph.D | Electrical Engineering | California Institute of Technology | 2002 |
| M.S. | Electrical Engineering | California Institute of Technology | 1997 |
| Diploma | Electrical Engineering | University of Nis, Serbia | 1994 |

APPOINTMENTS

August 2021 – present: Fortinet Founders Chair of Electrical Engineering, Stanford

June 2019 – present: Jensen Huang Professor in Global Leadership, School of Engineering, Professor of Electrical Engineering and by courtesy of Applied Physics, Stanford University

A faculty member of the Ginzton Lab, PULSE Institute, SIMES Institute, Wu-Tsai Neuroscience Institute, and Bio-X

December 2018 – July 2021: Inaugural Director of Q-FARM: Stanford-SLAC Quantum Initiative

September 2014 – June 2019: Professor of Electrical Engineering and by courtesy of Applied Physics, Stanford University; a faculty member of the Ginzton Lab, PULSE Institute, SIMES Institute, and Bio-X

February 2013 – Sept. 2014: Professor of Electrical Engineering, Stanford University; a faculty member of Ginzton Lab

Sept. 2008 – January 2013: Associate Professor of Electrical Engineering (with tenure), Stanford University

January 2003–Aug. 2008: Assistant Professor of Electrical Engineering, Stanford University.

September 2002–December 2002: Acting Assistant Professor of Electrical Engineering, Stanford University.

January 2002–August 2002: Postdoctoral Scholar, Stanford University, Applied Physics Department.

2002: Consultant, Luxtera Inc.

Sept 1996–December 2001: Research and Teaching Assistant, California Institute of Technology.

1996: Research and Teaching Assistant, Communications Science and Engineering Group, School of Electrical Engineering, University of Sydney, Australia.

1994–1995: Research and Teaching Assistant, Faculty of Electronic Engineering, University of Nis, Yugoslavia.

AWARDS and HONORS

2021: Mildred Dresselhaus Lecturer, MIT

2020: James P. Gordon Memorial Speaker, the Optical Society (OSA)

2019: A. F. Harvey Engineering Research Prize, the IET

2019: Distinguished Scholar of the Max Planck Institute for Quantum Optics, Munich, Germany

2018: Fellow of the Institute of Electrical and Electronics Engineers (IEEE)

2015: Fellow of the Optical Society of America (OSA)

2015: Fellow of the American Physical Society (APS), Division of Atomic Molecular and Optical Physics

2013: Hans Fischer Senior Fellow at the Institute for Advanced Studies, Technical University of Munich, Germany

2012: Marko V. Jaric Award for outstanding achievements in physics (the top physics prize in Serbia)

2010: Humboldt Prize (Humboldt Research Award), Alexander von Humboldt Foundation, Germany

2009: Teaching Excellence Award, Society of Women Engineers, Stanford University

2008: Chambers Faculty Scholar, Stanford University

2008: DARPA Young Faculty Award

2007: Presidential Early Career Award for Scientists and Engineers (PECASE)

2006: Okawa Foundation Research Grant Recipient

2006: Office of Naval Research Young Investigator Award

2003: Frederick E. Terman Fellowship, Stanford University

2002: Charles Lee Powell Foundation Faculty Award

1996: Postgraduate Research Award (UPRA) from the University of Sydney, Australia

1994: Silver Sign of the University of Nis, awarded to the best university student in the graduating class

1994: Best student at the Faculty of Electronic Engineering, University of Nis, Serbia

1993, 1991: The October Award (the highest award for student achievements at the University of Nis)

1989-1993 Fellowship from the Foundation for Development of Sciences and Arts, Yugoslavia, awarded to most talented high-school and university students in Yugoslavia (awarded as a high-school student, continued throughout university)

Before 1989: a number of top awards in physics and math competitions in Serbia and Former Yugoslavia.

RESEARCH ACTIVITIES & INTERESTS

Broad definition: experimental and theoretical research in nanophotonics and quantum photonics.

Topics include: Quantum optics, cavity QED, quantum information processing with semiconductor devices; nonlinear optics with nanophotonic structures; inverse nanophotonic design; integrated photonics; on chip laser driven particle accelerators; photonic biosensors.

PROFESSIONAL ACTIVITIES

Advisory roles and boards

Scientific Advisory Board Member, Max Planck Institute of Quantum Optics (MPQ), Munich, Germany, May 2015-December 2023

Cofounder and Board of Directors Member – SPINS Photonics Inc, January 2022-present

Advisory Board member, Viewberty Inc, 2021-present

National Science Foundation (NSF) Engineering Advisory Committee Member, September 2019-July 2021

ETH Zurich, Physics Department – evaluation committee (October 2020)

Advisor, Alphabet X (2017-2019)

Scientific Advisory Board Member, Ferdinand-Braun Institute, Leibnitz Institute for high frequency techniques, Berlin, Germany, April 2015-March 2019

Stanford SystemX Board Member, 2015-2021

Conference organization

International Organizing Committee Member, *PECS XIII*, March 2023, Tokyo, Japan

Program Committee Member, APS March Meeting, Division of Quantum Information, focus session on “Hybrid Quantum Systems,”, Chicago, IL, March 2022

Program Committee Member, *ICOLS (International Conference on Lasers Spectroscopy)*, Estes Park, CO, June 2021

Program Committee Member, *Gordon Research Conference on Quantum Science*, Stonehill College, Easton, MA, July 2018

Organizing committee, Stanford Workshop on Optimized, Arbitrary and Reconfigurable Optics, Nov. 2017; Stanford Workshop on Advanced Data Center Architectures and Technologies, Dec. 2018; Stanford Quantum Retreat, Dec. 2018

International Advisory Board Member, *PECS XII* The University of York, UK, April 2016

Quantum Africa II, Sep. 2012, Program Committee member

PECS IX (9th International Conference on Photonic and Electromagnetic Crystal Structures), 2010 – International Organizing Committee Member

CLEO/EQEC Europe 2009 – Semiconductor Lasers Committee Member

QELS 2008 - Subcommittee chair for “Fundamental optics in periodic and random media”

IEEE LEOS (Lasers and Electro-Optics Society) Nanophotonics Committee Member, 2006

Chair of sessions at numerous conferences including Gordon Research Conferences on Quantum Information Science and Plasmonics, CLEO/QELS, IEEE LEOS Annual Meetings, SPIE Annual Meeting - Photonics West, etc.

Co-organizer of the *Stanford Photonics Research Center Annual Symposium* (Sept. 2003, 2005, 2008, 2010, 2012), *Nanophotonics Workshop at Stanford University* (Jan. 2004), *MURI Center for Photonic Quantum Information Systems Kick-Off and Review Meetings* (Oct. 2003, 2006 and 2007), and the *Quantum Repeater Workshop* (Harvard, November 2005).

Journal editorial and other roles

Associate Editor, *ACS Photonics*, January 2018-present

Editorial Advisory Board Member, *APL Photonics*, July 2019-present

Editorial Advisory Board Member, *Nature Quantum Information*, Aug. 2014-present

Editorial Advisory Board Member, *ACS Photonics*, Jan. 2014-Dec. 2017

Editorial Advisory Board Member, *Nanophotonics*, May 2012-present

Editorial Board, *New Journal of Physics*, Jan. 2014 – Aug. 2014

Co-Editor of the *New Journal of Physics*, Focus Issue on the cavity QED in solids, 2012

Expert Adviser/External Panelist for the Nature Index (Nature Publishing Group), Aug. 2011

Special Issue of the IEEE Journal of Selected Topics in Quantum Electronics (JSTQE) on Quantum and Nanoscale Photonics, 2012 - Primary Guest Editor

Co-Editor of the *New Journal of Physics*, Focus Issue on integrated quantum photonics/optics, 2011

Co-Editor of the *New Journal of Physics*, Focus Issue on Single-Photons on Demand, 2004

Regular reviewer of scientific publications for: *Nature*, *Science*, *Nature Physics*, *Nature Photonics*, *Nature Materials*, *Nature Communications*, *Nature Nanotechnology*, *Nano Letters*, *Applied Physics Letters*, *Physical Review Letters*, *Physical Reviews A, B, E, X*, *IEEE Journal of Quantum Electronics* and *Journal on Selected Topics in Quantum Electronics*, *Photonics Technology Letters*, *Optics Letters*, *Optics Express*, *New Journal of Physics*, etc.

Outreach

Speaker, Stanford EE100 (Electrical Engineering Profession), October 2021

Speaker, Stanford Sophomore College, September 2021

Speaker, Stanford Program for Inspiring the Next Generation of Women in Physics (SPINWIP), June 2021

Panelist, CLEO 2021 Special Event “Optimizing Career Paths in Optics: The Guide for Young Professionals,”

Guest, Future of Everything radio show, Sirius XM, Stanford, Nov. 2019

Panelist, “Quantum Computing: will it work and when”, CLEO, 2019

Panelist, “What is next in integrated photonics,” CLEO 2019

Panelist, rising stars workshop, Stanford, November 2017

Reddit, Ask me Anything (AMA) host, organized by the Optical Society of America, February 2017

Advisor for Stanford Women in Engineering (WEE) Society (2005-present), Stanford

Nanoscience & Nanotechnology Student Society (2008-present), and Stanford EE Undergraduates Society FUSE (2014-present)

Panelist at various student and professional events

TEACHING AND COURSE DEVELOPMENT

Stanford University, 2003-present:

Introduced, developed, and taught one graduate and three undergraduate classes:

- “Advanced Topics in Optics and Quantum Optics: *Optical Microcavities*” (EE340)
- “Introduction to nanophotonics and nanostructures” (EE136)
- “Freshman seminar: From science fiction to science and engineering” (EE016N)
- Introduction to electromagnetics and its applications (EE42)

Also lectured and helped develop the following classes:

- Applied Quantum Mechanics I (EE222)
- Applied Quantum Mechanics II (EE223)
- Photonics Laboratory (EE234)
- Engineering electromagnetics (EE141/EE142)
- Optics and Quantum Electronics Seminar (AP483)

California Institute of Technology (1996-2001):

Teaching assistant for Solid-state physics (APh114abc), Solid-state devices (EE/APh180), Solid-state electronics for integrated circuits laboratory (APh9)

University of Sydney (1996) and University of Nis, Serbia (1994-1995):

Teaching assistant for a number of courses on solid-state devices, analog and digital circuits.

MENTORING and ADVISING

Present and former PhD students (Stanford University, 2003-present)

1. Hatice Altug (PhD Appl. Phys., 2006): Professor, Bioengineering, EPFL
2. Dirk Englund (PhD Appl. Phys., 2008): Associate Professor with tenure, Electrical Engineering and Computer Science, MIT
3. Ilya Fushman (PhD Appl. Phys., 2008): General partner at Kleiner Perkins
4. Andrei Faraon (PhD Appl. Phys., 2009): Professor of Applied Physics, Materials Science, and Biomedical Engineering, Caltech
5. Maria Makarova (PhD EE, 2010): Lecturer, Tecnológico de Monterrey, Monterrey, Mexico
6. Yiyang Gong (PhD EE, 2010): Assistant Professor of Biomedical Engineering at Duke
7. Bryan Ellis (PhD EE, 2011): Senior Hardware Development Engineer, Infinera
8. Kelley Rivoire (PhD EE, 2012): Data Scientist, Stripe

9. Arka Majumdar (PhD EE, 2012): Associate Professor of Electrical Engineering and Physics, University of Washington, Seattle
10. Gary Shambat (PhD EE, 2013): Hardware product lead, Lyft
11. Jesse Lu (PhD EE, 2013): Research Engineer, Stanford
12. Sonia Buckley (PhD Appl. Phys., 2014): Research Scientist, NIST, Boulder
13. Armand Rundquist (PhD EE, 2015): Hardware Development Engineer at Infinera
14. Jan Petykiewitz (PhD EE, 2016): Hardware Engineer, Platform Optics Group, Google
15. Marina Radulaski (PhD Appl. Phys., 2016): Assistant Professor, ECE, UC Davis
16. Yousif Kelaita (PhD EE, 2018): Hardware Engineer, Google
17. Kevin Fischer (PhD EE, 2018): Software Engineer, Nines
18. Alexander Piggott (PhD EE, 2018): Hardware Engineer - Advanced LiDAR at Waymo
19. Linda Zhang (PhD Appl. Phys., 2019): Hardware engineer, Waymo
20. Constantin Dory (PhD EE, 2020): Hardware Engineer, Apple
21. Logan Su (PhD Appl. Phys, 2020): Software Engineer, Waymo
22. Neil Sapra (PhD Physics, 2020): Photonic Design Engineer, Ayar Labs
23. Rahul Trivedi (PhD EE, 2020): Postdoctoral Fellow, Max Planck Institute for Quantum Optics (MPQ), Munich, Germany; incoming Assistant Professor, Department of Electrical Engineering, University of Washington, Seattle
24. Daniil Lukin (PhD EE, 2022): Postdoctoral Scholar, Stanford University
25. Alison Rugar (PhD Appl. Phys, 2022): Postdoctoral Scholar, Sandbox Quantum
26. Jinhie Lee Skarda (PhD EE, 2022): Photonics Engineer, Apple
27. Guillermo Angeris (PhD EE, 2022): Head of research, Bain Capital Crypto
28. Geun Ho Ahn (PhD EE, expected 2023)
29. Melissa Guidry (PhD APh, expected 2023)
30. Sattwik Deb Mishra (PhD EE, expected 2023)
31. Alex White (PhD EE, expected 2024)
32. Joshua Yang (PhD EE, expected 2024)
33. Yakub Grzesik (PhD EE, expected 2025)
34. Hope Lee (PhD Appl. Phys., expected 2025)
35. Dominic Catanzaro (PhD EE, expected 2026)

Present and former MSc students

1. Eliza Cornell, EE co-term MSc, 2018-2019; now a PhD student at Harvard
2. Guillermo Andres Angeris, EE co-term MSc, MSc thesis (co-advised with Stephen Boyd), 2017-present; now a PhD student at Stanford
3. Nicolas Manquest (MSc EE 2010); now a research engineer at Astrium, France

Present and former postdocs, research scientists and engineers

1. Edo Waks (2003-2006): Professor of Electrical and Computer Engineering, University of Maryland and JQI
2. Vanessa Sih (2007-2008): Professor of Physics, University of Michigan
3. Erik Kim (2009-2011): Hardware Engineer, Waymo
4. Michal Bajcsy (2010-2013): Associate Professor, Institute for Quantum Computing (IQC) and Electrical and Computer Engineering, University of Waterloo, Canada

5. Tom Babinec (2012-2015): Research scientist, Harvard University
6. Kai Mueller (2013-2015): Assistant Professor of Electrical Engineering, Technical University Munich, Germany
7. Konstantinos Lagoudakis (2012-2017): Associate Professor of Physics, University of Strathclyde, Glasgow, UK
8. Tomas Sarmiento (2013-2018): Laser Engineer, Apple
9. Shuo Sun (2017-2020): Assistant Professor of Physics, JILA and UC Boulder
10. Eric Yue Ma (2018-2021): Assistant Professor of Physics and EE, UC Berkeley
11. Jean-Philippe MacLean (2020): Scientist, GHGSat, Montreal, Canada
12. Dries Vercruyse (2016-2020): Optical design engineer, Ayar Labs
13. Shahriar Aghaeimeibodi (2020-2021): Quantum Research Scientist, Amazon
14. Kiyoul Yang (2018-)
15. Daniel Riedel (2020-)
16. Jesse Lu (2020-)
17. Kasper Van Gasse (2021-)
18. Hyounghan Kwon (2021-)
19. Eric Rosenthal (2021-)
20. Chris Anderson (2021-)

OTHER INTERESTS AND SKILLS

Languages: Serbian (native), English (fluent), French (intermediate).

PUBLICATIONS

As of April 2022, >250 published in refereed journals. Work cited over 34000 times, h-index of 92 (Google Scholar)
17 book chapters
18 issued US patents, ~10 pending
Over 400 invited talks, >50 plenary, keynote talks and distinguished lectures
(the list follows; selected publications available online on the website)

PUBLICATIONS LIST

REFEREED JOURNAL PUBLICATIONS

Submitted

1. “Bounds on Efficiency Metrics in Photonics,” Guillermo Angeris, Theo Diamandis, Jelena Vučković, Stephen Boyd (2022) [arXiv:2204.05243]
2. “Photonic crystal resonators for inverse-designed multi-dimensional optical interconnects, C. Shirpurkar, J. Zhang,” K. Y. Yang, S. Carlson, S.P. Yu, E. Lucas, S.V. Pericherla, J. Yang, M. Guidry, D. Lukin, L. Traski, F. Aflaouni, J. Vuckovic, S.B. Papp, and P. J. Delfyett, submitted (2022)
3. “Gradient-Based Optimization of Optical Vortex Beam Emitters,” Inverse-Design of Optical Vortex Beam Emitters,” Alexander D. White, Logan Su, Daniel I. Shahar, Ki Youl Yang, Siddharth Ramachandran, Jelena Vuckovic, submitted (2022) [arxiv: 2202.09490]
4. “Two-emitter multi-mode cavity quantum electrodynamics in thin film silicon carbide photonics,” Daniil M. Lukin, Melissa A. Guidry, Joshua Yang, Misagh Ghezellou, Sattwik Deb Mishra, Hiroshi Abe, Takeshi Ohshima, Jawad Ul-Hassan, and Jelena Vuckovic, submitted (2022) [arXiv:2202.04845]
5. “Platform-agnostic waveguide integration of high-speed photodectors with evaporated tellurium thin films,” Geun Ho Ahn, Alexander D. White, Hyungjin Kim, Naoki Higashitarumizu, Felix M. Mayor, Jason F. Herrmann, Wentao Jiang, Kevin K. S. Multani, Amir H. Safavi-Naeini, Ali Javey, Jelena Vuckovic, submitted (2021)
6. “Creating boundaries along a synthetic frequency dimension,” Avik Dutt, Luqi Yuan, Ki Youl Yang, Kai Wang, Siddharth Buddhiraju, Jelena Vuckovic, and Shanhui Fan, submitted (2021)
7. “Superradiance in dynamically modulated Tavis-Cummings model with spectral disorder,” A.D. White, R. Trivedi, K. Narayanan, J.Vuckovic , submitted, arXiv:2108.08397 (2021)
8. “Photonic Inverse Design of On-Chip Microresonators,” Geun Ho Ahn, Ki Youl Yang, Rahul Trivedi, Alexander D. White, Logan Su, Jinhie Skarda and Jelena Vuckovic, submitted to *ACS Photonics* (2021) [arXiv:2109.07097]
9. “Low Overhead Distribution Strategy for Simulation of Large-Area Metasurfaces,” Jinhie Skarda, Rahul Trivedi, Logan Su, Diego Ahmad-Stein, Hyoungghan Kwon, Seunghoon Han, Shanhui Fan, and Jelena Vuckovic, accepted in *Nature Computational Materials* (2021) [arXiv: 2107.09879]
10. “Multi-dimensional optical transmitters using inverse designed silicon photonics,” K.Y.Yang, A.D.White, F.Ashtiani, C.Shirpurkar, S.V.Pericherla, L.Chang, H H.Song, K.Zou, H.Zhou, K.Pang, J. Yang, M. A. Guidry, D. M. Lukin, H. Hao, L. Trask, G.H.Ahn A.Netherton, T.C. Brilles, J. R. Stone, L. Rechtman, J. S. Stone, K. Van Gasse, J.Skarda, L.Su, D.Vercruysse, J.P. W. MacLean, S.Aghaeimeibodi, M. J. Li, D.A.B.Miller, D. Marom,

S.B. Papp, A.E. Willner, J.E. Bowers, P. J. Delfyett, F. Aflatouni, and J. Vuckovic, submitted (2021) [arXiv:2103.14139]

11. “Few-particle scattering from localized quantum systems in spatially structured bosonic baths,” Rahul Trivedi, Kevin Fischer, Shanhui Fan, and Jelena Vuckovic, submitted (2021) [arXiv:2009.06860]

Published

1. Melissa A. Guidry, Daniil M. Lukin, Ki Youl Yang, Rahul Trivedi, and Jelena Vuckovic, “Quantum optics of soliton combs,” *Nature Photonics*, DOI 10.1038/s41566-021-00901-z (2021) [arXiv:2103.10517]

Also featured in Stanford News: “A quantum view of combs of light,” by Taylor Kubota (Dec. 2021)

2. Dries Vercrusse, Neil V. Sapiro, Ki Youl Yang, and Jelena Vuckovic, “Inverse designed photonic crystal devices for optical beam steering,” *ACS Photonics* <https://doi.org/10.1021/acsp Photonics.1c01119> (2021) [arXiv:2102.00681]
3. Sattwik Deb Mishra, Rahul Trivedi, Amir H. Safavi-Naeini, and Jelena Vuckovic, “Control design for inhomogeneous broadening compensation in single photon transducers,” *Physics Review Applied*, vol. 16, 044025 (2021)
4. Alison E. Rugar, Shahriar Aghaeimeibodi, Daniel Riedel, Constantin Dory, Haiyu Lu, Patrick J. McQuade, Zhi-Xun Shen, Nicholas A. Melosh, and Jelena Vuckovic, “A Quantum Photonic Interface for Tin-Vacancy Centers in Diamond,” *Physical Review X*, vol. 11, 031021 (2021)

See also a Physics Viewpoint: “Tin Qubits Give Diamond a New Shine,” Evangelia Takou and Sophia E. Economou, *Physics* 14, 105 (2021)

5. Guillermo Angeris, Jelena Vuckovic, Stephen Boyd, “Convex restrictions in physical design,” *Scientific Reports*, vol. 11, article 12976 (2021)
6. Rahul Trivedi, Daniel Malz, Shanhui Fan and Jelena Vuckovic, “Optimal two-photon excitation of bound states in non-Markovian waveguide QED,” *Physical Review A*, vol. 104, 013705 (2021) [arXiv:2009.08602]
7. Shahriar Aghaeimeibodi, Daniel Riedel, Alison E. Rugar, Constantin Dory, and Jelena Vuckovic, “Electrical control of tin-vacancy centers in diamond,” *Physical Review Applied*, vol. 15, 064010 (2021) [editor’s suggestion]
8. Leo Yu, Minda Deng, Jingyuan Linda Zhang, Sven Borghardt, Beata Kardynal, Jelena Vučković, and Tony F. Heinz, “Site-Controlled Quantum Emitters in Monolayer MoSe₂,” *Nano Letters*, vol. 21, pp. 2376-2381, <https://doi.org/10.1021/acs.nanolett.0c04282> (2021)
9. Kai Wang, Avik Dutt, Ki Youl Yang, Casey Wojcik, Jelena Vuckovic, and Shanhui Fan, “Generating arbitrary topological windings of a non-Hermitian band,” *Science*, Vol. 371, Issue 6535, pp. 1240-1245, DOI: 10.1126/science.abf6568 (2021)
10. Guillermo Angeris, Jelena Vuckovic, Stephen Boyd, “Heuristic Methods and Performance Bounds for Photonics Inverse Design,” *Optics Express* vol. 29, No. 2, pp. 2827-2854, (2021) [invited review article]

11. Daniil M. Lukin, Melissa A. Guidry, and Jelena Vuckovic, “Integrated quantum photonics with silicon carbide: challenges and prospects,” *Physical Review X Quantum*, vol. 1, 020102 (2020) [invited perspective article]
12. Ehud Altman, Kenneth R. Brown, Giuseppe Carleo, Lincoln D. Carr, Eugene Demler, Cheng Chin, Brian DeMarco, Sophia E. Economou, Mark Eriksson, Kai-Mei C. Fu, Markus Greiner, Kaden R. A. Hazzard, Randall G. Hulet, Alicia J. Kollar, Benjamin Lev, Mikhail Lukin, Ruichao Ma, Xiao Mi, Shashank Misra, Chris Monroe, Kater Murch, Zaira Nazario, Kang-Kuen Ni, Andrew C. Potter, Pedram Roushan, Mark Saffman, Monika Schleier-Smith, Irfan Siddiqi, Raymond Simmonds, Meenakshi Singh, I. B. Spielman, Kristan Temme, David S. Weiss, Jelena Vuckovic, Vladan Vuletic, Jun Ye, and Martin Zwierlein, “Quantum Simulators: Architectures and Opportunities,” *Physical Review X Quantum*, vol. 2, 017003 (2021)
13. David Awschalom, Karl K. Berggren, Hannes Bernien, Sunil Bhave, Lincoln D. Carr, Paul Davids, Sophia E. Economou, Dirk Englund, Andrei Faraon, Marty Fejer, Saikat Guha, Martin V. Gustafsson, Evelyn Hu, Liang Jiang, Jungsang Kim, Boris Korzh, Prem Kumar, Paul G. Kwiat, Marko Lončar, Mikhail D. Lukin, David A. B. Miller, Christopher Monroe, Sae Woo Nam, Prineha Narang, Jason S. Orcutt, Michael G. Raymer, Amir H. Safavi-Naeini, Maria Spiropulu, Kartik Srinivasan, Shuo Sun, Jelena Vučković, Edo Waks, Ronald Walsworth, Andrew M. Weiner, Zheshen Zhang, “Development of Quantum Inter-Connects (QuICs) for Next-Generation Information Technologies,” *Physical Review X Quantum*, vol. 2, 017002 (2021)
14. Mahla Pudineh, Caitlin L. Maikawa, Eric Yue Ma, Jing Pan, Dan Mamerow, Yan Han, Sam Baker, Ahmad Beirami, Michael Eisenstein, Seung Kim, Jelena Vuckovic, Eric A. Appel, Hyongsok Tom Soh, “A fluorescence sandwich immunoassay for the real-time continuous detection of glucose and insulin in live animals,” *Nature Biomedical Engineering*, vol. 5, pages 53–63, doi: <https://doi.org/10.1101/2020.01.22.916106> (2021)
15. Eva Scholl, Lucas Schweickert, Lukas Hanschke, Katharina D. Zeuner, Friedrich Sbresny, Thomas Lettner, Rahul Trivedi, Marcus Reindl, Saimon Filipe Covre da Silva, Rinaldo Trotta, Jonathan J. Finley, Jelena Vuckovic, Kai Mueller, Armando Rastelli, Val Zwiller, and Klaus D. Jons, “The crux of using the cascaded emission of a 3-level quantum ladder system to generate indistinguishable photons,” *Physical Review Letters* vol. 125, 233605 (2020)
16. Hanzhe Liu, Giulio Vampa, Jingyuan Linda Zhang, Yu Shi, Siddharth Buddhiraju, Shanhui Fan, Jelena Vuckovic, Philip H. Bucksbaum, David A. Reis, “Overcoming the absorption limit in high-harmonic generation from crystals,” *Physics Communications*, DOI 10.1038/s42005-020-00472-5 (2020)
17. Rahul Trivedi, Alex White, Shanhui Fan, and Jelena Vuckovic, “Analytic and geometric properties of scattering from periodically modulated quantum-optical systems,” *Physical Review A*, vol. 102, 033707 (2020)
18. Daniil M. Lukin, Alexander D. White, Melissa A. Guidry, Rahul Trivedi, Naoya Morioka, Charles Babin, Oney Soykal, Jawad Ul-Hassan, Nguyen Tien Son, Takeshi Ohshima, Pratul Vasireddy, Mamdouh Nasr, Shuo Sun, Jean-Philippe W. MacLean, Constantin Dory, Emilio A. Nanni, Joerg Wrachtrup, Florian Kaiser, and Jelena Vuckovic, “Spectrally reconfigurable

- quantum emitters enabled fast optical modulation,” *NPJ Quantum Information*, vol. 6, article 80, DOI 10.1038/s41534-020-00310-0 (2020)
19. Alison E. Rugar, Constantin Dory, Shahriar Aghaeimeibodi, Haiyu Lu, Shuo Sun, Sattwik Deb Mishra, Zhi-Xun Shen, Nicholas A. Melosh, and Jelena Vuckovic, “Narrow-linewidth tin-vacancy centers in a diamond waveguide,” *ACS Photonics*, vol. 7, No. 9, pp. 2356-2361 <https://dx.doi.org/10.1021/acsp Photonics.0c00833> (2020) [arXiv:2005.10385]
 20. Melissa Guidry, Kiyoul Yang, Daniil Lukin, Ashot Markosyan, Joshua Yang, Martin Fejer, and Jelena Vuckovic, “Optical parametric oscillation in silicon carbide nanophotonics,” *Optica*, vol. 7, No. 9, pp. 1139-1142, <https://doi.org/10.1364/OPTICA.394138> (2020)
 21. Rahul Trivedi, Guillermo Angeris, Logan Su, Stephen Boyd, Shanhui Fan, Jelena Vuckovic, “Bounds for scattering from absorption-less electromagnetic structures,” *Physical Review Applied*, vol. 14, 014025 (2020) [arXiv:2003.00374]
 22. Peter Udvarhelyi, Gergio Thiering, Naoya Morioka, Charles Babin, Florian Kaiser, Daniil Lukin, Takeshi Ohshima, Jawad Ul-Hassan, Nguyen Tien Son, Jelena Vuckovic, Joerg Wrachtrup, and Adam Gali, “Vibronic states and their effect on the temperature and strain dependence of silicon-vacancy qubits in 4H silicon carbide,” *Physical Review Applied*, vol. 13, 054017 (2020) [arXiv:2001.02459]
 23. Ki Youl Yang, Jinjie Skarda, Michele Cotrufo, Avik Dutt, Geun Ho Ahn, Mahmoud Sawaby, Dries Vercruyssen, Amin Arbabian, Shanhui Fan, Andrea Alu, and Jelena Vuckovic, “Inverse-designed nonreciprocal switch for chip-based optical ranging,” *Nature Photonics* vol. 14, pp. 369–374 (2020) <https://doi.org/10.1038/s41566-020-0606-0> (2020)
Featured in *Stanford News*, *ScienceDaily*, *EurekAlert*, *Phys.org*, *Ars Technica* etc.
Featured in News and Views article “Low-loss nonlinear optical isolators in silicon,” Eric Kittlaus, Peter Weigel, William Jones, *Nature Photonics*, vol. 14, pp. 338–339(2020)
 24. Logan Su, Dries Vercruyssen, Jinjie Skarda, Neil V. Sapiro, Jan Petykiewicz, Jelena Vuckovic, “Nanophotonic Inverse Design with SPINS: Software Architecture and Practical Considerations,” *Applied Physics Review*, vol. 7, No. 1, DOI: 10.1063/1.5131263 (2020) [invited article]
 25. Alexander Y. Piggott*, Eric Y. Ma*, Logan Su*, Geun Ho Ahn, Neil V. Sapiro, Dries J.F. Vercruyssen, Andrew M. Netherton, Akhilesh S.P. Khope, John E. Bowers and Jelena Vuckovic, “Inverse-designed photonics for semiconductor foundries,” *ACS Photonics*, vol. 7, No. 3, pp. 569-575 <https://doi.org/10.1021/acsp Photonics.9b01540> (2020)
Featured by ACS Photonics on the International Day of Light (May 16) as one of the most important contributions to the journal for the last 12 months
 26. Alison E. Rugar, Haiyu Lu, Constantin Dory, Shuo Sun, Patrick J. McQuade, Zhi-Xun Shen, Nicholas A. Melosh, and Jelena Vuckovic, “Generation of Tin-Vacancy Centers in Diamond via Shallow Ion Implantation and Subsequent Diamond Overgrowth,” *Nano Letters*, vol. 20, 1614-1619, doi: <https://doi.org/10.1021/acs.nanolett.9b04495> (2020)
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PLENARY AND KEYNOTE TALKS

1. Jelena Vuckovic, *Photonics North*, Niagra Falls, Canada, May 2022 [plenary]
2. Jelena Vuckovic, *Metamaterials Congress*, Siena, Italy, September 12-17, 2022 [plenary]
3. Jelena Vuckovic, *ICPS 2020 (International Conference on Physics of Semiconductors), Perspectives in Semiconductor Physics: Nobel Laureates, Community Leaders*, Sydney, Australia, June 26-July 1st, 2022 [plenary]
4. Jelena Vuckovic, *Conference on Defects in Solids for Quantum Technologies (DSQT2020)*, Stockholm, Sweden, June 2022 [keynote]
5. Jelena Vuckovic, *Optical Fiber Communication Conference and Exhibition (OFC) 2022*, San Diego, CA, March 2022 [tutorial]
6. Jelena Vuckovic, *SPIE Photonics West OPTO*, San Francisco, California, Jan 22 – 27, 2022 [plenary]
7. Jelena Vuckovic, *Photonics Days*, Belgrade, Serbia, December 2021 [keynote]
8. Jelena Vuckovic, *SIT Insights in Technology 2021*, December 2021 [keynote]
9. Jelena Vuckovic, *Spanish Optical Society Annual Meeting*, Nov. 2021 [plenary]
10. Jelena Vuckovic, *Photonics & Electromagnetics Research Symposium (PIERS)*, November 2021 [keynote]
11. Jelena Vuckovic, *Annual Spring Meeting of the German Physical Society DPG*, Berlin, Germany, Sept. 27-Oct. 1st 2021 [plenary]

12. Jelena Vuckovic, *Hybrid Photonic and Quantum Low-dimensional Materials Symposium*, Sandia National Labs, September 21-23, 2021 [plenary]
13. Jelena Vuckovic, *MetaNano 2021* [keynote]
14. Jelena Vuckovic, *OSA Optical Imaging and Sensing*, July 2021 [plenary]
15. Jelena Vuckovic, *Photonics North*, May 31st - June 2nd, 2021 [keynote]
16. Jelena Vuckovic, *Quantum Days*, January 2021 [keynote]
17. Jelena Vuckovic, *Photonics Online Meetup*, January 2021 [tutorial]
18. Jelena Vuckovic, *European Semiconductor Laser Workshop 2020* [keynote]
19. Jelena Vuckovic, *Quantum 2020*, October 19-22 2020 [plenary]
20. Jelena Vuckovic, "Optimized Photonics," *14th Pacific Rim Conference on Lasers and Electro-Optics (CLEO Pac Rim)*, Sydney, Australia, Aug 2-6, 2020 [tutorial]
21. Jelena Vuckovic, *OSA Advanced Photonics Conference*, Montreal, Canada, July 13-16, 2020 [plenary]
22. Jelena Vuckovic, *Quantum Technologies conference at SPIE Photonics Europe*, Strasbourg, France, March 29 - April 2 2020 [plenary]
23. Jelena Vuckovic, *Aspen Winter Conference on Quantum Information and Systems for Fundamental Physics*, Aspen, CO, Feb. 17-22, 2020 [public lecture]
24. Jelena Vuckovic *Micro- and Nanophotonics Days 2019*, Centre for Nanoscience and Nanotechnology of the CNRS, Paris Saclay, November 20-21, 2019 [keynote]
25. Jelena Vuckovic, *IEEE Photonics Society Annual Meeting (IPC)*, San Antonio, TX, October 2019 [plenary]
26. Jelena Vuckovic, *Frontiers in Optics - Laser Science (FiO-LS) Conference*, Washington, D.C. September 16-19, 2019 [visionary talk]
27. Jelena Vuckovic, *2019 SPIE Optics + Photonics meeting*, August 2019 [plenary]
28. Jelena Vuckovic, 10th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2019) will be held in Lisbon - Portugal, July 23-26, 2019 [keynote]
29. Jelena Vuckovic, *ICOLS 2019*, Queenstown, New Zealand, July 8-12, 2019
30. Jelena Vuckovic, a plenary presentation at the *Central European Workshop on Quantum Optics (CEWQO)*, Paderborn, Germany, June 3rd - 7th, 2019 [plenary]
31. Jelena Vuckovic, *IEEE New Frontiers in Computing (NFIC) Conference*, Stanford University, May 14, 2019 [keynote]
32. Jelena Vuckovic, "Quantum Photonics with Defect Centers," *European Conference on Atomic, Molecular and Optical Physics (ECAMP-13)*, Florence, Italy April 8-12, 2019 [plenary]
33. Jelena Vuckovic, *Quantum Innovators in Science and Engineering workshop, the Institute for Quantum Computing (IQC)*, University of Waterloo, ON, Canada, Oct. 2018 [plenary]

34. Jelena Vuckovic, *Opportunities for Quantum Technologies 2018 (Quantum Opportunities 2018)*, *Quantum Tech Dialogue*, Vancouver, Canada, October 3rd, 2018 [keynote]
35. Jelena Vuckovic, "From inverse design to implementation of practical nanophotonics," *the 15th international conference on Near-field Optics, Nanophotonics and Related Techniques (NFO-15)*, University of Technology of Troyes, Troyes, France, August 26-31st, 2018 [plenary]
36. Jelena Vuckovic, *Workshop on "The Quantum Internet; Charting the Critical Path,"* University of Toronto, Toronto, CA, Jun 21-23, 2018 [keynote]
37. Jelena Vuckovic, "Quantum hardware," *International Foresign Forum: Quantum Computing and Silicon Photonics*, Taipei, Taiwan, June 2018 [keynote]
38. Jelena Vuckovic, The DATE (Design, Automation, Test and Embedded Systems) Conference , NanoDay, Dresden, Germany, March 21, 2018 [keynote]
39. Jelena Vuckovic, *Symposium on "Advancing Electronics,"* Dresden excellence cluster "Center for Advancing Electronics Dresden (CfAED)", Dresden, Germany, 19 March 2018 [keynote]
40. Jelena Vuckovic, "Quantum nanophotonics," *CLEO (Conference on Lasers and Electro-Optics)*, San Jose, CA, June 5-10, 2016 [plenary]
41. Jelena Vuckovic, "Inverse design and implementation of compact and efficient nanophotonic circuits," *SPIE Optical Microlithography*, San Jose, CA, 21 - 25 February 2016 [keynote]
42. Jelena Vuckovic, "Nanophotonic devices: from nanolasers to single cell probes," *58th International Conference on Electron, Ion, Photon Beam Technology, and Nanofabrication (EIPBN2014, also known as "Three Beams")*, Washington, DC, May 27-30, 2014 [plenary]
43. Jelena Vuckovic, "Quantum Nano-Optics," *Annual Meeting of the German Physical Society (DPG)*, March 19, 2014 [plenary]
44. Gary Shambat and Jelena Vuckovic, "Single Cell Nanocavity Probes," Plenary session of the *BiOS Hot Topics*, BiOS/Photonics West conference, San Francisco February 1st, 2014
45. Jelena Vuckovic, "Quantum dots in optical nanocavities: from cavity QED to device applications," *Australian Institute of Physics Congress*, Sydney, Australia, Dec. 9-13, 2012 [plenary]
46. Jelena Vuckovic, "(Solid-state) cavity QED for quantum and classical information processing" *IEEE Summer Topical Meeting on "Entanglement Distribution in Quantum Communication and Beyond,"* Montreal, Quebec, Canada, July 18-20, 2011 [plenary]
47. Jelena Vuckovic, "Photonic crystals and quantum dots: from cavity QED, to single photon nonlinear optics and efficient information processing," *Photonica 2011, 3rd International School and Conference on Photonics*, Belgrade, Serbia August 29-Sept. 2nd 2011 [keynote]
48. Jelena Vuckovic, "Generation and Manipulation of Classical and Nonclassical Light Using Photonic Crystals," *12th Int'l Conf. on Modulated Semiconductor Structures (MSS12) and Int'l Conf. on Electronic Properties of Two-Dimensional Systems (EP2DS-16)*, Albuquerque, NM, July 2005. [plenary]

DISTINGUISHED LECTURES

49. Jelena Vuckovic, *Distinguished Speaker Series Seminars*, IBM, May 2022
50. Jelena Vuckovic, *POSTECH Distinguished Lecture*, POSTECH, South Korea, April 2022
51. Jelena Vuckovic, *Dresselhaus Lecture*, MIT, November 2021
52. Jelena Vuckovic, *Charles L. Brown Distinguished Colloquium series*, University of Virginia, February 2021
53. Jelena Vuckovic, *Distinguished Lecturer Seminar, Max Planck Institute for the Science of Light (MPL)*, Erlangen, Germany, Nov. 2020
54. Jelena Vuckovic, *Distinguished Grace Hopper Lecture, University of Pennsylvania*, November 2020
55. Jelena Vuckovic, *Distinguished Seminar Series in Nanoscience, Kavli Nanoscience Institute (KNI)*, California Institute of Technology (Caltech), Pasadena, CA, January 2020
56. Jelena Vuckovic, *ECE Distinguished Colloquium Speaker*, Boston University, January 2019
57. Jelena Vuckovic, "Quantum nanophotonics," *Distinguished Lecture, Munushian Lecturer Series*, Electrical Engineering-Electrophysics, University of Southern California, Los Angeles, April 2017

INVITED TALKS AT MAJOR INTERNATIONAL CONFERENCES

58. Jelena Vuckovic, *68th Annual AVS International Symposium and Exhibition (AVS 68)* November 6-11, 2022, Pittsburgh, PA
59. Jelena Vuckovic, *Niels Bohr Centennial Symposium: Frontiers in Quantum Science and Technology*, Copenhagen, Denmark, October 10th-12th, 2022
60. Jelena Vuckovic, *Frontiers of Quantum Information Science*, Vienna, Austria, September 4-9, 2022
61. Jelena Vuckovic, *Nanotechnology Meets Quantum Information*, San Sebastian, Spain, August 29-September 2, 2022
62. Jelena Vuckovic, *Quantum Technologies Symposium at OPTICA's Advanced Photonics Congress*, Maastricht, The Netherlands, 25-28 July 2022
63. Daniil Lukin, Jelena Vuckovic, *Photonics for Quantum*, Rochester Institute of Technology, Rochester, June 6-9, 2022.
64. Jelena Vuckovic, *2022 Compound Semiconductor Week (CSW)*, The University of Michigan, Ann Arbor, Michigan, June 1-3, 2022
65. Alison E. Rugar, Shahriar Aghaeimeibodi, Daniel Riedel, Constantin Dory, Haiyu Lu, Patrick J. McQuade, Zhi-Xun Shen, Nicholas A. Melosh, and Jelena Vuckovic, "Quantum Photonics with Tin-Vacancy Centers in Diamond," *APS March Meeting*, Chicago, IL, March 2022

66. Daniil Lukin, Jelena Vuckovic, “Quantum Computing, Communication and Simulation”, *Photonics West-OPTO-2022*, San Francisco, CA, January 2022
67. Kiyoul Yang, Jelena Vuckovic, OE303 “High Contrast Metastructures IX”, *Photonics West-OPTO-2022*, San Francisco, CA, January 2022
68. Jelena Vuckovic, *International Symposium on Novel materials and quantum Technologies (ISNTT) 2021*, NTT, Japan, December 2021
69. Shahriar Aghaeimeibodi, Jelena Vuckovic, *IEEE International Electron Devices Meeting (IEDM)*, San Francisco, CA, Dec. 2021
70. Jelena Vuckovic, *Symposium EQ01 “Quantum Optical Materials and Devices Based on Impurity Systems” at Materials Research Society (MRS) Fall 2021 Meeting*, Boston, MA, Nov. 28-Dec. 3, 2021
71. Kiyoul Yang, Jelena Vuckovic, *Photonics & Electromagnetics Research Symposium (PIERS)*, “SC2&SC3: Intelligent Photonics”, November 2021
72. Jelena Vuckovic, *OSA Conference on Photonics in Switching and Computing*, September 27-29, 2021
73. Kiyoul Yang, Jelena Vuckovic, *Automotive LIDAR 2021 conference*, September 21-23 (2021)
74. Jelena Vuckovic, *Special Session on "Fundamental Performance Limits in Photonics" Metamaterials Congress*, New York City on Sept. 20-25, 2021
75. Daniil Lukin, Jelena Vuckovic, *Quantum Applications Conference (QuApps2021)*, "Materials and Enabling Technologies for Quantum Technology", September 2021
76. Jelena Vuckovic, *IEEE Optical MEMS and Nanophotonics Conference and Summer School*, August 2021
77. Jelena Vuckovic, *SPIE Optics & Photonics symposium, Conference on Metamaterials, Metadevices, and Metasystems*, Special session on Deep Learning in Photonics, San Diego, CA, Aug. 1-5, 2021
78. Jelena Vuckovic, *OSA Nonlinear Optics Topical Meeting*, Waikoloa Beach Marriott Resort & Spa, Waikoloa Beach, Hawaii United States, July 12-15, 2021
79. Jelena Vuckovic, *Conference on Lasers and Electro-Optics Europe (CLEO/Europe) and the European Quantum Electronics Conference (EQEC)*, Munich, Germany, June 20 - 24, 2021
80. Jelena Vuckovic, *Electron Beam Spectroscopy for Nano-Optics (EBSN)*, June 2021
81. Jelena Vuckovic, *Optical Fiber Communications (OFC), Workshop on Quantum Photonic Emitters and Integrated Quantum Photonics*, June 2021
82. Jelena Vuckovic, *Conference on Lasers and Electro-Optics (CLEO), Special Symposium on Microwave-to-optical quantum interconnects*, San Jose, CA, May 9-14, 2021.
83. Jelena Vuckovic, “Scalable quantum systems combining spins in semiconductors, optimized photonics, and Floquet engineering,” *APS March Meeting, Advances in Quantum Technologies: Hybrid Systems (DQI)* , March 2021

84. Jelena Vuckovic, *Photonic and Phononic Properties of Engineered Nanostructures*, *Photonics West*, San Francisco CA, March 2021
85. Jelena Vuckovic, *Integrated Optics: Devices, Materials, and Technologies conference*, *Photonics West*, San Francisco CA, March 2021
86. Jelena Vuckovic, *Photonics Spectra Conference*, January 2021
87. Jelena Vuckovic, *MRS 2020 Fall meeting*, Boston, USA, November 29 - December 4, 2020
88. Jelena Vuckovic, *IEEE Photonics Conference (IPC2020)*, Vancouver, Canada 27 September - 1 October 2020
89. Jelena Vuckovic, *Frontiers in Optics/ Laser Science*, Washington DC, September 13-17, 2020
90. Dries Verduynst, Jelena Vuckovic, *IEEE Research and Applications of Photonics in Defense (RAPID) Conference*, Sandestin Beach, Florida, Aug. 10-12, 2020
91. Guillermo Angeris, Rahul Trivedi, Logan Su, Stephen Boyd, Jelena Vuckovic, "Computational bounds of photonic devices," *META2020*, Warsaw, Poland, July 20-23, 2020
92. Jelena Vuckovic, "Connecting and scaling semiconductor quantum photonic systems," *Photonics for Quantum (PqQ2)*, Rochester Institute of Technology (RIT), June 2020
93. Jelena Vuckovic, "Quantum integrated photonics," *CLEO Science and Innovations*, San Jose, CA, May 2020
94. Jelena Vuckovic, "From inverse design to implementation of practical photonics," *MRS Spring Meeting*, Phoenix, Arizona, April 13 -17, 2020
95. Logan Su, Jelena Vuckovic, *2020 International Applied Computational Electromagnetics Society (ACES) Symposium*, March 22-26, 2020, in Monterey, California, USA
96. Jelena Vuckovic, *Special Symposium on Quantum Information Science and Technology (QIST), Optical Fiber Communication Conference and Exhibition (OFC 2020)*, San Diego, CA, March 9-10, 2020
97. Jelena Vuckovic, *APS March Meeting*, Denver, CO, March 2-6, 2020
98. Jelena Vuckovic, *Aspen Winter Conference on Quantum Information and Systems for Fundamental Physics*, Aspen, CO, Feb. 17-22, 2020
99. Jelena Vuckovic, Rahul Trivedi, Winter Colloquium on the Physics of Quantum Electronics (PQE), Snowbird, UT, Jan 5-10, 2020.
100. Kiyoul Yang, Jinjie Skarda, Jelena Vuckovic, "From inverse design to implementation of practical photonics," *IEEE/ACM ICCAD Conference*, Westminster, CO, Nov. 2019
101. Logan Su, Jelena Vuckovic, Workshop on "New modelling challenges in optical communications," *European Conference on Optical Communication 2019, ECOC2019*, Dublin, Ireland, Sept. 2019
102. Jelena Vuckovic, *Symposium on "Nanoscale and molecular assemblies: Designing matter to control energy transport" Fall 2019 American Chemical Society Meeting, San Diego, CA from August 25 - 29, 2019*

103. "Inverse design and demonstration of laser driven particle accelerators on chip, Neil V. Sapiro, Ki Youl Yang, Dries J. F. Vercruyssen, Kenneth Liddle, Dylan Black, Logan Su, Rahul Trivedi, Yu Miao, Olav Solgaard, Bob Byer, Jelena Vučković, *SPIE Optics + Photonics*, San Diego, CA, Aug. 2019
104. Jelena Vuckovic, *SPIE Optics & Photonics conference on "Quantum Nanophotonics Materials, Devices and Systems*, San Diego, CA August 11-15, 2019
105. Jelena Vuckovic, *Quantum Symposium at the OSA Advanced Photonics Congress*, San Francisco, CA, July 29-Aug. 1, 2019
106. Kiyoul Yang, Jelena Vuckovic, *O5 (Optical Passive Devices and Modules) Conference, OECC/PSC 2019*, Fukuoka, Japan, July 7-11, 2019
107. Logan Su, Jelena Vuckovic, *IEEE Photonics Society, Summer Topical Meeting*, Ft. Lauderdale, Florida, July 8-10, 2019
108. Logan Su, Jelena Vuckovic, special workshop on *Artificial Intelligence in Nanophotonics*, a part of the *International Work-Conference on Artificial Neural Networks (IWANN2019)*, June 12-14, 2019 in Gran Canaria, Canary Islands, Spain
109. Constantin Dory, Jelena Vuckovic, *63rd International Conference on Electron, Ion, and Photon Beam Technology and Nanofabrication (EIPBN)*, Minneapolis, MN, 28-31 May, 2019
110. Jelena Vuckovic, KITP conference *Exploring Open Quantum Systems in Quantum Simulators*, KITP (Kavli Institute for Theoretical Physics), UCSB, CA April 29 - May 3, 2019
111. Constantin Dory, Jelena Vuckovic, "Diamond quantum photonics," *Symposium EP11 on "Hybrid Materials and Devices for Enhanced Light-Matter Interactions,"* 2019 MRS Spring Meeting & Exhibit, Phoenix, Arizona, April 22 - 26, 2019
112. Logan Su, Jelena Vuckovic, "Design and Optimization for Nanophotonics: Multiscale Techniques" *2019 International Applied Computational Electromagnetics Society (ACES) Symposium*, April 14-18, 2019, Miami, Florida, USA
113. Jelena Vuckovic, *Symposium on "Photonic and Phononic Properties of Engineered Nanostructures" Conference in Optoelectronics 2019 Symposium, Photonics West*, San Francisco, CA, February 2-9, 2019
114. Shuo Sun, Jelena Vuckovic, *49th Winter Colloquium on the Physics of Quantum Electronics (PQE-2019)*, Snowbird, UT, January 6-11, 2019
115. Jelena Vuckovic, *OSA Laser Congress*, Boston, MA, November 4-8, 2018
116. Jelena Vuckovic, *Quantum Science and Engineering, Quantum Materials and Applications Session, 65th Annual AVS International Symposium and Exhibition (AVS 65)*, Oct 21 – Oct 26, 2018 in Long Beach, CA.
117. Jelena Vuckovic, "Connecting quantum systems through optimized photonics," *Frontiers in Optics/Laser Science (FiO/LS)*, Washington DC, September 2018
118. Jelena Vuckovic, "From Inverse Design to Implementation of Robust and Practical Photonics," *SPIE Conference on Metamaterials, Metadevices, and Metasystems 2018, Optics*

& Photonics symposium, Special Session on Engineered Materials for Extreme Optics and Imaging, San Diego, CA, USA, August 19 - August 23, 2018

119. Jelena Vuckovic, "Connecting quantum systems through optimized photonics," *Gordon Research Conference on Quantum Science*, Stonehill College, Easton, MA, July 29 - August 3, 2018
120. Jelena Vuckovic, "From Inverse Design to Implementation of Robust Nanophotonics," *Integrated Photonics Research (IPR) Conference, OSA Advanced Photonics Congress*, ETH Zurich, July 2-5, 2018
121. Jelena Vuckovic, *10th international Quantum Dot Conference – QD2018*, Toronto, ON, Canada, June 25-29, 2018
122. Jelena Vuckovic, "Optimized photonics: from on-chip nonclassical light sources to circuits," *Conference on Lasers and Electro-Optics (CLEO)*, San Jose, CA, May 14-18, 2018
123. Jelena Vuckovic, *Conference on Challenges in Quantum Information Science (CQIS2018)*, National Institute of Informatics (NII), Tokyo, Japan, April 2018
124. Jelena Vuckovic, *NIM Conference on Resonator QED*, Munich, Germany, August 29 - September 1, 2017
125. Jelena Vuckovic, *ETH 2017 Monte Verita Meeting on "Frontiers in Quantum Nanophotonics"*, Monte Verita, Switzerland, August 20-25, 2017
126. Jelena Vuckovic, "Quantum Nanophotonics," *Metamaterials, Metadevices, and Metasystems Conference, SPIE Nanoscience + Engineering Symposium*, San Diego, CA, Aug. 6-10, 2017
127. Tomas Sarmiento, Jelena Vuckovic, *IEEE Summer Topical Meeting*, San Juan, Puerto Rico, July 2017
128. Jelena Vuckovic, *23th International Conference on Laser Spectroscopy (ICOLS-17)*, Arcachon, France, July 2 - 8, 2017
129. Jelena Vuckovic, "Inverse design and implementation of optical structures" *International Conference on Computation Photography (ICCP 2017)*, Stanford, May 12-14, 2017
130. Kevin Fischer, Jelena Vuckovic, "Quantum nanophotonics," *Symposium on Novel Photonic, Electronic and Plasmonic Phenomena in Materials (ED13), MRS Spring Meeting*, Phoenix, AZ, April 17th - 21st, 2017
131. Linda Zhang, Jelena Vuckovic, "Quantum nanophotonics," *Entangled photon and nonclassical light session, SPIE Defense and Commerce conference*, Anaheim, California, April 9-13, 2017
132. Marina Radulaski, Jelena Vuckovic, "Quantum nanophotonics: from inverse design to implementations," *Photonic and Phononic Properties of Engineered Nanostructures* conference in Optoelectronics 2017 Symposium, *Photonics West*, San Francisco, CA, January 28-February 2, 2017 ¹
133. Konstantinos Lagoudakis, Jelena Vuckovic, "Quantum nanophotonics: from inverse design to implementations," *Special Symposium on "Integrated Quantum Photonics," 100th*

Optical Society of America annual meeting (Frontiers in Optics), Rochester, New York on October 17-21, 2016

134. Kai Mueller, Jelena Vuckovic, *Nonlinear Optics and Excitation Kinetics in Semiconductors (NOEKS-13)*, Dortmund, Germany, October 9-13, 2016
135. Jelena Vuckovic, "(Quantum) nanophotonics: from inverse design to implementations," *PECS XII*, University of York, UK, July 18-21 2016
136. Jelena Vuckovic, Workshop on "Attosecond Non-linear Optics", *CLEO/QELS*, San Jose, CA, June, 2016.
137. Kevin Fischer, Jelena Vuckovic, "Strongly Coupled Quantum Dot-Nanocavity Systems" *APS March Meeting*, Baltimore, MD, March 14-18, 2016
138. Jelena Vuckovic, "Low power nonlinear optics in nanophotonic structures," *Frontiers in Optics 2015/Laser Science XXXI (FiO/LS)*, *FiO 6: Quantum Electronics (Nonlinear Optics in Micro/Nano-Optical Structures)*, San Jose, CA, 18-21 October 2015
139. Alexander Piggott, Jelena Vuckovic, "Inverse nanophotonic design," *IEEE Photonics Conference (IPC)*, Reston, VA, 4-8 October 2015
140. Jelena Vuckovic, "Quantum Nanophotonics," *Fundamental Optical Processes in Semiconductors (FOPS)*, Breckenridge, Colorado, August 2-7, 2015
141. Kai Mueller, Jelena Vuckovic, "Quantum Nanophotonics," *META 2015, the 6th International Conference on Metamaterials, Photonic Crystals and Plasmonics*, New York City, 4-7 August 2015
142. Shashank Gupta, Dave Sukhdeo, Jan Petykiewicz, Donguk Nam, Jelena Vuckovic, and Krishna C. Saraswat, "Light Emission from Strain Engineered Germanium for Silicon Compatible Optical Interconnects," *PIERS*, Prague, July 2015
143. Marina Radulaski, Jelena Vuckovic, *Conference on Lasers and Electro-Optics Europe (CLEO/Europe) and the European Quantum Electronics Conference (EQEC)*, Munich, Germany, June 21 - 25, 2015.
144. Jelena Vuckovic, *Atomic Physics Gordon Conference*, Salve Regina University, Newport, RI June 14 - 19, 2015.
145. Jelena Vuckovic, *Photonics North 2015, Special Symposium on Quantum Information with Atoms, Molecules, and Photons*, Ottawa June 9th to 11th, 2015
146. K. G. Lagoudakis, P. L. McMahon, K. Fischer, K. M. Mueller, T. Sarmiento, D. Dalacu, P. J. Poole, M. E. Reimer, V. Zwiller, Y. Yamamoto, and J. Vuckovic, "Coherent control and optical pumping of spins in self-assembled and site-controlled quantum dots," *16th International Conference on Physics of Light-Matter Coupling in Nanostructures (PLMCN)*, Medellin, Colombia February 3-8, 2015
147. Jelena Vuckovic, Alex Piggott, Jesse Lu, "Inverse design and implementation of nanophotonic structures," *SPIE Photonics West, Optoelectronics 2015 Symposium "Photonic and Phononic Properties of Engineered Nanostructures"*, San Francisco, CA, Feb. 7-12, 2015

148. Konstantinos Lagoudakis, Jelena Vuckovic, "Quantum emitters in optical nanocavities: physics and applications," *Innovative Resonator-Emitter Coupled Systems, Frontiers in Optics/Laser Science*, Tucson, AZ, Oct 19-23, 2014
149. Arka Majumdar, Armand Rundquist, Sonia Buckley, Jonghwan Kim, Sanfeng Wu, Michal Bajcsy, Feng Wang, Xiaodong Xu, Jelena Vučković, "Towards few-photon optoelectronics with photonic crystal devices," *Frontiers in Optics/Laser Science*, Tucson, AZ, Oct 19-23, 2014
150. Kai Mueller, Jelena Vuckovic, "Generation of non-classical light on-chip using cavity quantum-electrodynamics," *International Conference of Young Researchers on Advanced Materials (IUMRS-ICYRAM)*, Haikou, China, October 24-27, 2014.
151. Jelena Vuckovic, "Quantum and nonlinear optical devices based on photonic crystal and nanometallic cavities," *Session on "Optical Micro/Nano Resonators and Devices" at IEEE Photonics Conference*, San Diego, CA, October 12-16, 2014
152. Jelena Vuckovic, "Quantum and nonlinear optics at the single photon level with quantum dots in optical nanocavities," *APS March Meeting, Symposium on "Quantum Control of Molecular, Nano, and Plasmonic Materials"*, Denver, CO, March 3-7, 2014
153. Jelena Vuckovic, *Symposium on Quantum Dot and Nanostructures, Photonics West*, San Francisco, February 1 – 6, 2014
154. Thomas Babinec, Jelena Vuckovic, *PQE2014, "Cavity enhanced light-matter interactions"*, Snowbird, UT, January 5-9, 2014
155. Jelena Vuckovic, "Quantum dots in photonic crystal cavities: from quantum optics to nano-lasers and intra-cellular probes," *Frontiers in Optics (FiO)*, Orlando, FL, Oct. 2013
156. Tomas Sarmiento, Jelena Vuckovic, *SemiconNano2013, 4th International Workshop on Epitaxial Growth and Fundamental Properties of Semiconductor Nanostructures*, Lake Arrowhead, CA, Oct. 2013
157. Jelena Vuckovic, "Optical nanocavities: from light sources to single cell probes," *IEEE Photonics Conference 2013*, Bellevue, Washington, September 2013
158. Sonia Buckley, Jelena Vuckovic, *Special Symposium on "Nanophotonics and Metamaterials Ideas for Telecoms and Data Processing"*, *European Conference on Optical Communications (ECOC)*, London, UK, September 2013
159. Jelena Vuckovic, "Cavity QED with quantum dots in photonic crystals," *Conference on Resonator QED*, Munich, Germany, September 2013
160. Jelena Vuckovic, Arka Majumdar, Michal Bajcsy, Armand Rundquist, "Nonclassical light sources based on quantum dots in optical nanocavities," *Active Photonic Materials V, SPIE Optics and Photonics Congress*, San Diego, CA, August 2013
161. Jan Petykiewicz, Gary Shambat, Bryan Ellis, Tomas Sarmiento, Alexander Piggott, Jelena Vuckovic, "Electrically controlled photonic crystal nanocavity sources and modulators," *IEEE Summer Topical Meeting on Micro- and Nano-Cavity Integrated Photonics*, Waikoloa, Hawaii, July 2013

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162. Jelena Vuckovic, "Quantum dots in optical nanocavities: from cavity QED to device applications," *MRS Spring Meeting, Symposium on Resonant Optics in Metallic and Dielectric Structures: Fundamentals and Applications* San Francisco, CA, April 2013
 163. Sonia Buckley, Jelena Vuckovic, *SPIE Photonics West*, Conference on "Photonic and Phononic Properties of Engineered Nanostructures," "Nonlinear optics with nW optical powers in photonic crystals," San Francisco, February 2-7, 2013
 164. Jan Petykiewicz, Jelena Vuckovic, *SPIE Photonics West*, Conference on "Physics and Simulation of Optoelectronic Devices XXI," "Design of electrically injected lateral PC lasers," San Francisco, February 2-7, 2013
 165. Michal Bajcsy, Jelena Vuckovic, *SPIE Photonics West*, Conference on "Advances in Photonics of Quantum Computing, Memory, and Communication VI (OE117)," Session on "Ultra-Low Power Switching in Quantum and Nonlinear Photonics," San Francisco, February 2-7, 2013
 166. Jelena Vuckovic, *MRS Fall Meeting, Symposium on Optically Active Nanostructures*, "Quantum dot-photonic crystal based optoelectronic devices operating at the quantum limit," Boston, MA, Nov. 2012
 167. Jelena Vuckovic, "Photonic crystal nanocavity lasers and modulators," *IEEE Photonics Conference*, Burlingame, CA, Sept. 23-27, 2012
 168. Gary Shambat, Jelena Vuckovic, "Ultrafast photonic crystal single mode LED," *International Conference on Solid State Devices and Materials (SSDM)*, Kyoto, Japan, Sept. 2012
 169. Jelena Vuckovic, "Cavity QED and quantum optics with a single quantum dot in a photonic crystal cavity or a photonic molecule," *23rd International Conference on Atomic Physics (ICAP 2012)*, session on "Quantum optics and cavity QED," Ecole Polytechnique, Palaiseau, Paris, July 23-27, 2012
 170. Jelena Vuckovic, "Nanophotonics for quantum optics", *OSA Integrated Photonics Research, Silicon and Nano-Photonics (IPR)*, Colorado Springs, Colorado June 17-22, 2012
 171. Jelena Vuckovic, Arka Majumdar, Michal Bajcsy, Armand Rundquist, Dirk Englund, Andrei Faraon, "Strong photon-photon and photon – phonon interaction in a coupled quantum dot- photonic crystal nanocavity," *PECS-X*, Santa Fe, New Mexico, June 3–8, 2012
 172. Jelena Vuckovic, "Quantum dots in optical nanocavities: from cavity QED to device applications," *7th International Conference on Quantum Dots (QD 2012)*, Santa Fe, New Mexico, USA, May 14 -18, 2012
 173. Jelena Vuckovic, "Ultra-low threshold and high speed electrically pumped photonic crystal nanocavity lasers and LEDs," *CLEO*, San Jose, CA, May 2012
 174. Jelena Vuckovic, "Quantum dot - nanocavity QED for quantum information processing," Focus session on "Semiconductor-based quantum communication" *Spring meeting of the German Physical Society*, Berlin, Germany, March 2012
 175. Jelena Vuckovic, " Strong photon-photon interaction in a coupled quantum dot-photonic crystal nanocavity," *APS March Meeting*, session on "Strongly interacting photons," Boston, MA, Feb-March 2012

176. Jelena Vuckovic, Bryan Ellis, Gary Shambat, Jan Petykiewicz, Marie Mayer, Tomas Sarmiento, Eugene Haller, Jim Harris, "Electrically injected photonic crystal nanolaser," *Novel In-Plane Semiconductor Lasers XI (OE122) Conference*, SPIE Photonics West, San Francisco, CA, Jan 2012
177. Jelena Vuckovic, Arka Majumdar, Alexander Papageorge, Armand Rundquist, Yiyang Gong, Erik Kim, and Michal Bajcsy, "Opto-mechanics and quantum dot-nanocavity QED," *Frontiers in Optics*, San Jose, CA, 16-20 October 2011.
178. Jelena Vuckovic, Bryan Ellis, Gary Shambat, Arka Majumdar, Andrei Faraon, " Ultra-low threshold lasers and modulators based on optical nanocavities," *SPIE Optics and Photonics, Active Photonic Materials IV*, San Diego, CA, Aug 21-25, 2011
179. Jelena Vuckovic, "(Solid state) cavity QED and applications" *Gordon Conference on Atomic Physics*, Mount Snow Resort, West Dover, VT, June 26-July 1, 2011
180. Jelena Vuckovic, "Photonic crystal cavities: from nonlinear optics at a few photons level, to fast, energy efficient information processing" *CLEO Europe - EQEC (Conference on Lasers and Electro-Optics Europe and the European Quantum Electronics Conference)*, Munich, Germany May 22-27, 2011
181. Jelena Vuckovic, " Nonlinear optics in photonic crystal nanocavities: from light sources to quantum photonic interfaces," *Photonic and Phononic Properties of Engineered Nanostructures, Optoelectronics 2011, Photonics West*, San Francisco, CA, 22-27 January 2011
182. Jelena Vuckovic, IEEE 2011 Winter Topical "Low dimensional Nanostructures and Subwavelength Photonics," Keystone, Colorado, Jan 10-12, 2011 [invited tutorial]
183. Jelena Vuckovic, "Silicon nanocavity based light sources," *MRS Fall Meeting*, Boston, November 2010
184. Jelena Vuckovic, "Fast and energy efficient (silicon CMOS compatible) sources and modulators based on photonic crystals," *PECS IX (9th International Conference on Photonic and Electromagnetic Crystal Structures)*, Granada, Spain, Sept. 26-30, 2010.
185. Jelena Vuckovic, Kelley Rivoire, Arka Majumdar, Ilya Fushman, Dirk Englund, Andrei Faraon, "Nonlinear optics (at a single photon level) in photonic crystal nanocavities," *Special Symposium, SIAM Conference on Nonlinear Waves and Coherent Structures (NW10)*, Philadelphia, Pennsylvania, August 16-19, 2010.
186. Jelena Vuckovic, Bryan Ellis, Arka Majumdar, Gary Shambat, Andrei Faraon, and Dirk Englund, "Fast and energy efficient optical switches and modulators based on photonic crystals," *Photonics in Switching 2010 Topical Meeting*, Santa Cruz/Monterey, CA, July 25-29, 2010
187. Jelena Vuckovic, Arka Majumdar, Kelley Rivoire, Erik Kim, Andrei Faraon, Dirk Englund, Ilya Fushman, Hyochul Kim, and Pierre Petroff, "Quantum dot-nanocavity devices for information processing," *OSA IPR-2010 (Integrated Photonics, Silicon and Nano Photonics conference collocated with the OSA Photonics in Switching conference)*, Santa Cruz/Monterey, CA, July 25-29, 2010.

188. Jelena Vuckovic, Arka Majumdar, "Classical and quantum information processing with a single quantum dot in a photonic crystal nanocavity," The 22nd International Conference on Indium Phosphide and Related Materials (IPRM 2010), May 31 - June 4, Takamatsu, Kagawa, Japan
189. Arka Majumdar, Andrei Faraon, Carter Lin, Nicolas Manquest, Dirk Englund, Ilya Fushman, and Jelena Vuckovic, "Quantum and classical information processing with a single quantum dot in photonic crystal cavity," *The 6th International Conference on the Physics of Quantum Dots (QD2010)*, Nottingham, UK. April 25-30, 2010
190. Jelena Vuckovic "Active photonic crystal devices: from switches and modulators controlled with sub-fJ energies, to silicon-based light sources," *SPIE - Photonics West, Photonic and Phononic Crystal Materials and Devices*, San Francisco, CA, Jan. 23-28, 2010
191. Jelena Vuckovic, Andrei Faraon, Arka Majumdar, Carter Lin, Dirk Englund, "Optical manipulation of quantum dot excitons strongly coupled to photonic crystal cavities," *SPIE - Photonics West, Advances in Photonics of Quantum Computing, Memory, and Communication III*, San Francisco, CA, Jan. 23-28, 2010
192. Jelena Vuckovic, "Quantum dots in photonic crystals: from quantum information processing to ultra-low energy optical switching," *International Conference on Quantum Information and Technology*, National Institute of Informatics, Tokyo, Japan, Dec. 3-5, 2009.
193. Jelena Vučković, Maria Makarova, Yiyang Gong, Selcuk Yerci, Rui Li, Luca Dal Negro, Erbium Doped Silicon Photonic Crystals for Light Sources and Amplifiers, *OSA Frontiers in Optics*, San Jose, CA, Oct. 11-15, 2009
194. Jelena Vuckovic, "Quantum dots in photonic crystals: from quantum information processing to single photon nonlinear optics," *Conference on Quantum Information and Quantum Control (QCIC)*, Fields Institute, University of Toronto, Toronto, CA, Aug. 24-27, 2009
195. Jelena Vuckovic, "Photonic crystal nanocavities: from active nanophotonics, to quantum information processing and nonlinear optics at a single photon level," *DAMOP, Session on Quantum Information with Matter and Light*, University of Virginia, Charlottesville, May 19-23, 2009
196. Jelena Vuckovic, "Photonic crystal nanocavities: from active nanophotonics, to quantum information processing and nonlinear optics at a single photon level" *MRS Spring Meeting, Symposium on "Plasmonics, metamaterials, and light localization,"* San Francisco, CA, April 13-17, 2009
197. Jelena Vuckovic, "Cavity QED in photonic crystals: from quantum information processing to single photon nonlinear optics," *PECS VIII (8th International Photonic & Electromagnetic Crystal Structures Meeting)*, Sydney, Australia, April 5-9th, 2009.
198. Andrei Faraon, Ilya Fushman, Dirk Englund, and Jelena Vuckovic, "Photon blockade in a photonic crystal cavity with a strongly coupled quantum dot," *SPIE Annual Meeting, Photonics West, Symposium on "Advanced Optical Concepts in Quantum Computing, Memory, and Communication II"*, San Jose, CA (Jan. 2009)
199. Dirk Englund, Andrei Faraon, Ilya Fushman, Jelena Vuckovic, "Optical probing and manipulation of single quantum dots in photonic crystal cavities," *SPIE Annual Meeting, Photonics West, Symposium on "Advanced Optical Concepts in Quantum Computing,*

- Memory, and Communication II*", San Jose, CA, USA, January 2009
200. Jelena Vuckovic, Dirk Englund, Andrei Faraon, Ilya Fushman, and Arka Majumdar "Quantum Dots in Photonic Crystals: from single photon sources to single photon nonlinear optics," *SPIE Annual Meeting, Photonics West, Symposium on single photon sources*, San Jose, CA, USA, January 2009
 201. Jelena Vuckovic, Dirk Englund, Andrei Faraon, Ilya Fushman, "Cavity QED, single photon nonlinear optics, and quantum information processing with quantum dots in photonic crystals," *Frontiers in Optics/Laser Science, XXIV annual meeting*, Rochester, NY, Oct. 19-23, 2008
 202. Dirk Englund, Jelena Vuckovic, "Classical and quantum light sources based on photonic crystals," *SPIE Optics and Photonics Meeting*, San Diego, Aug. 10-14, 2008
 203. Jelena Vuckovic, Andrei Faraon, Ilya Fushman, Dirk Englund, "Controlling photonic crystal cavity reflectivity with a single quantum dot: from quantum information processing to single photon nonlinear optics," *European Materials Research Society (EMRS) Spring Meeting*, Symposium on Active materials in photonic crystals for (strong) light matter coupling, Strasbourg, France, May 26-30, 2008
 204. Jelena Vuckovic, Dirk Englund, Ilya Fushman, Bryan Ellis, and Hatice Altug, "Ultrafast photonic crystal nanocavity lasers and optical switches," *SPIE Photonics West Conference*, Conference on "Physics and Simulation of Optoelectronic Devices," San Jose, CA, Jan. 2008
 205. Jelena Vuckovic, Dirk Englund, Andrei Faraon, Ilya Fushman, Vanessa Sih "Quantum information processing with quantum dots in photonic crystals," *SPIE Photonics West Conference*, Conference on "Advanced Optical Concepts in Quantum Computing, Memory and Communication," San Jose, CA, Jan. 2008
 206. Jelena Vuckovic, Dirk Englund, Andrei Faraon, Ilya Fushman, Bryan Ellis, and Hatice Altug "Photonic crystal chips for optical interconnects and quantum information processing," *SPIE Photonics West Conference*, Conference on "Photonic Crystal Materials and Devices," San Jose, CA, Jan. 2008
 207. Jelena Vuckovic, Ilya Fushman, Andrei Faraon, Dirk Englund, Bryan Ellis, Yiyang Gong, and Maria Makarova, "Photonic crystal chips for classical and quantum information processing," *ISCS (International Symposium on Compound Semiconductors)*, Kyoto, Japan, Oct. 15-18, 2007
 208. Jelena Vuckovic, Ilya Fushman, Andrei Faraon, Dirk Englund, and Bryan Ellis, "Nonlinear optical processes in photonic nanocavities," *OSA Nonlinear Optics Topical Meeting*, Kona, Hawaii, July 30-August 3 2007
 209. Jelena Vuckovic, Hatice Altug, Dirk Englund, and Bryan Ellis, "Coupled photonic crystal nanocavity arrays," *CLEO/EUROPE-IQEC 2007*, Munich, Germany, 17 – 22 June 2007
 210. Jelena Vuckovic, Andrei Faraon, Dirk Englund, and Ilya Fushman, "Cavity QED with quantum dots in photonic crystals," *the 9th Rochester Conference on Coherence and Quantum Optics (CQO9)*, the University of Rochester, the Symposium on quantum optics in mesoscopic condensed matter devices June 10-13, 2007.
 211. Hatice Altug, Dirk Englund and Jelena Vučković, "High Speed Dynamics of Photonic

- Crystal Nanocavity Laser,” *IEEE LEOS Annual Meeting*, Montreal, Canada, Nov. 2006
212. Jelena Vuckovic, “Quantum optics and quantum information processing with photonic crystal devices” *APS LS/OSA XXII Meeting (Quantum Optics in Photonic Materials)*, Rochester, NY, Oct. 2006.
213. Edo Waks, Dirk Englund, Andrei Faraon, Ilya Fushman, Jelena Vuckovic “Nanophotonic devices for quantum information processing,” *Third Feynman Festival*, University of Maryland, August 2006.
214. Jelena Vuckovic, Dirk Englund, Ilya Fushman, Andrei Faraon, and Edo Waks, “Quantum information processing with quantum dot-photonic crystal devices,” *IEEE/LEOS Summer Topical Meeting on Quantum Information*, Quebec City, Digest. pp. 6-7, Canada, July 2006.
215. Jelena Vuckovic, Ilya Fushman, Dirk Englund, Andrei Faraon, Edo Waks, “Quantum information processing with quantum dot-photonic crystal devices,” *Conference on Coherent Control of the Fundamental Processes in Optics and X-Ray Optics*, Nizhny Novgorod – Kazan, Russia, June 29-July 4, 2006.
216. Jelena Vuckovic, "Photonic crystal microcavities for classical and quantum information processing," *ICTON06 (8th International Conference on Transparent Optical Networks)*, Special Session on Microresonators and Photonic Molecules: Trapping, Harnessing, and Releasing Light, Proceedings pp. 75-76, Nottingham, U.K., June 2006.
217. Jelena Vuckovic, Dirk Englund, Edo Waks, Ilya Fushman, and Andrei Faraon, “Nanophotonic devices for quantum information processing,” *CLEO/QELS, Joint CLEO/QELS Session on Enabling Technologies for Quantum Communication*, Long Beach, CA, May 2006.
218. Jelena Vuckovic, Dirk Englund, Hatice Altug, Ilya Fushman, Edo Waks, “Nanophotonic devices for classical and quantum information processing,” *NIMS Conference on Photonic Processes in Semiconductor Nanostructures*, Tsukuba, Japan, March 2005.
219. Jelena Vuckovic, Dirk Englund, Hatice Altug, Ilya Fushman, Edo Waks, “Photonic crystal devices for quantum and nanoscale photonics,” *SPIE (The International Society for Optical Engineering) Optics East Conference*, Boston, MA, October 2005.
220. Jelena Vuckovic, Dirk Englund, David Fattal, Edo Waks, Bingyang Zhang, Glenn Solomon, Toshihiro Nakaoka, Yasuhiko Arakawa, and Yoshihisa Yamamoto, “Single Photon Source Based on a Quantum Dot in Photonic Crystal,” *IQEC/CLEO Pacific Rim*, Tokyo, Japan, July 2005.
221. Edo Waks, Dirk Englund, David Fattal, and Jelena Vuckovic, “Photonic-crystal based single photon source,” *SPIE Annual Meeting*, San Diego, CA, July 2005
222. Jelena Vuckovic, "Quantum Dot-Photonic Crystal Devices and Circuits for Quantum Information Processing," *Quantum Communications Research Conference (QCRC)*, Boulder, CO, June 1-3, 2005.
223. Jelena Vuckovic, Dirk Englund, David Fattal, Hatice Altug, Edo Waks, and Yoshihisa Yamamoto, "Photonic Crystal Devices for Quantum and Nanoscale Photonics," *NDSI'05 (Second Conference on Nanoscale Devices and System Integration)*, Houston, Texas, April 4-6, 2005.

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224. Jelena Vuckovic, "Photonic Crystal Devices for Quantum and Nanoscale Photonics," *American Physical Society (APS) March Meeting*, Los Angeles, CA, March 2005.
225. Jelena Vuckovic, "Nanophotonic Devices for Quantum Information Science," *Gordon Research Conference on Quantum Information Science*, Ventura, CA, Feb. 2005.
226. Edo Waks, David Fattal, Dirk Englund, Jelena Vuckovic, and Yoshihisa Yamamoto, "Single Photon Generation Using a Single Quantum Dot in a Photonic Crystal Cavity," *Physics of Quantum Electronics 2005*, Snowbird, Utah, Jan. 2005.
227. J. Vuckovic, D. Fattal, D. Englund, E. Waks, C. Santori, G. Solomon, and Y. Yamamoto, "Cavity Enhanced Single Photons From a Quantum Dot," Presented at *SPIE Photonics West, Single Photon Devices Minisymposium*, San Jose, CA, Jan. 2005. Published in *Proc. SPIE*, Vol. 5722, pp. 19-29. 2005.
228. Jelena Vuckovic, David Fattal, Edo Waks, Charles Santori, Dirk Englund, Hatice Altug, and Yoshihisa Yamamoto, "Photonic crystal components for solid-state photonic quantum information systems," *European Materials Research Society (EMRS) Annual Meeting, Symposium on Nanophotonic Materials*, Strasbourg, France, May 2004.
229. J. Vuckovic, H. Altug, E. Waks, D. Fattal, Y. Yamamoto, and D. Englund "Photonic Crystal Structures With Large Density of Optical States," *CLEO (Conference on Lasers and Electro-Optics), Special Symposium on Nonlinear Optical Lattices*, San Francisco, CA, May 2004.
230. J. Vuckovic, D. Fattal, C. Santori, G. Solomon, and Y. Yamamoto "Cavity Enhanced Single and Entangled Photons From a Quantum Dot," *QELS (Quantum Electronics and Laser Science) Conference*, Baltimore, MD, June 2003.
231. J. Vuckovic, C. Santori, D. Fattal, M. Pelton, G. Solomon, B. Zhang, J. Plant, and Y. Yamamoto, "Single Photons and Entangled Photons From a Quantum Dot," *Proc. IEEE Int'l Electron Devices Meeting (IEDM 2002)*, San Francisco, CA, pp. 87-90, December 2002.
232. J. Vuckovic, T. Yoshie, M. Loncar, H. Mabuchi, and A. Scherer, "Nano-Scale Optical and Quantum Optical Devices Based on Photonic Crystals," *Proc. IEEE Conf. on Nanotechnology (IEEE-NANO 2002)*, Washington, DC, August 26-28, 2002, pp. 319-321, 2002.
233. J. Vuckovic, A. Scherer, M. Loncar, T. Yoshie, O. Painter, "Applications of Photonic Crystals in Lasers and Light Emitting Diodes," *MRS (Materials Research Society) Spring Meeting*, San Francisco, CA, April 2002.
234. J. Vuckovic, M. Loncar, T. Yoshie, M. Armen, J. Williams, H. Mabuchi and A. Scherer, "High-Q Optical Nanocavities in Planar Photonic Crystals," *Proc. SPIE Photonics West (LASE 2002)*, San Jose, CA, January 2002, Vol. 4629, pp. 190-199, 2002.
235. A. Scherer, A. O. Painter, J. Vuckovic, M. Loncar, T. Yoshie, D. Dapkus, I. Kim, and T. Pearsall, "Photonic Crystal Cavities and Waveguides," *Conf. Digest of Device Research Conference (DRC)*, University of Notre Dame, Notre Dame, Indiana, June 2001, pp. 115-118, 2001.
236. J. Vuckovic, M. Loncar, O. Painter, and A. Scherer, "Surface Plasmon Enhanced LED,"

CLEO/QELS (Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science), San Francisco, CA, May 2000. *Technical Digest, Post-Conference Edition*, Vol. 40, pp. 41-42, and Vol. 39, pp. 123-124, 2002.

SHORT COURSES AT MAJOR INTERNATIONAL CONFERENCES / SUMMER SCHOOLS

237. Jelena Vuckovic, *Nano-Cavity Quantum Electrodynamics and Applications*, *CLEO-QELS*, San Jose, CA, May 2022
238. Jelena Vuckovic, *Institut Langevin's Summer School on "Wave propagation and control in complex media: From order to disorder,"* Cargèse, Corsica, France, June 2021
239. Jelena Vuckovic, *Nano-Cavity Quantum Electrodynamics and Applications*, *CLEO-QELS*, San Jose, CA, May 2021
240. Jelena Vuckovic, *Okinawa School in Physics: Coherent Quantum Dynamics' OIST Graduate University*, Okinawa, Japan, October 2022
241. Dries Verduyck, Jelena Vuckovic, 5th Summer School on Silicon Photonics, Ghent University Belgium, June 15-19, 2020
242. Jelena Vuckovic, *NanoQI'19 Summer School on "Nanotechnology meets Quantum Information,"* San Sebastian, Spain, July 22-26, 2019.
243. Jelena Vuckovic, *Nano-Cavity Quantum Electrodynamics and Applications*, *CLEO-QELS*, San Jose, CA, May 2019
244. Jelena Vuckovic, *Photonics Bootcamp*, Google X, Mountain View, January 2019
245. Jelena Vuckovic, "Single-photon generation, detection and manipulation at the nanoscale," special course on Nanoscale Quantum Optics, *International School of Physics "Enrico Fermi"*, Varenna, Italy, July 23-28 (2018)
246. Jelena Vuckovic, *Nano-Cavity Quantum Electrodynamics and Applications*, *CLEO-QELS*, San Jose, CA, May 2018
247. Jelena Vuckovic, *Okinawa School in Physics: Coherent Quantum Dynamics' OIST Graduate University*, Okinawa, Japan, September 26 - October 5, 2017
248. Jelena Vuckovic, *Nano-Cavity Quantum Electrodynamics and Applications*, *CLEO-QELS*, San Jose, CA, May 2017
249. Jelena Vuckovic, *Nano-Cavity Quantum Electrodynamics and Applications*, *CLEO-QELS*, San Jose, CA, June 2016
250. Jelena Vuckovic, *Nano-Cavity Quantum Electrodynamics and Applications*, *CLEO-QELS*, San Jose, CA, May 2015
251. Jelena Vuckovic, *Nano-Cavity Quantum Electrodynamics and Applications*, *CLEO-QELS*, San Jose, CA, May 2014
252. Jelena Vuckovic, *Ecole de Physique des Houches, Quantum Optics and Nanophotonics Summer School*, Les Houches, France, August 2013.

253. Jelena Vuckovic, *Nano-Cavity Quantum Electrodynamics and Applications*, CLEO-QELS, San Jose, CA, May 2013
254. D. Englund, J. Vuckovic, "Silicon Nanophotonics," *Frontiers in Optics/Laser Science, XXIV annual meeting*, Rochester, NY, Oct. 19-23, 2008

INVITED TALKS AT SYMPOSIA, MEETINGS, AND WORKSHOPS

255. Jelena Vuckovic, *2nd Colloquium on the Physics and Applications of Metasurfaces*, Villa Finaly in Florence, Italy, July 18-22, 2022
256. Jelena Vuckovic, *German Consortium on Quantum memories and Photonic interfaces*, Ulm University, May 5, 2022
257. Jelena Vuckovic, *SystemX Fall Symposium*, Stanford, CA, Nov. 2021 [plenary talk]
258. Daniil Lukin, Jelena Vuckovic, *2021 NNCI Etch Symposium*, UPenn, October 2021
259. Jelena Vuckovic, *ARO workshop on "Exploring Novel 3D Nano-Assembly Processes for Photonics"*, Caltech, September 2021
260. Jelena Vuckovic, *Summer School on "Wave propagation and control in complex media: From order to disorder,"* Cargèse, Corsica, France, June 28-30, 2021
261. Jelena Vuckovic, *NSF NNCI/quantum workshop*, April 12-16 2021
262. Jelena Vuckovic, *MPSD Workshop - Light matter hybrids: strong light matter phenomena and cavity-engineering*, Max Planck Institute for the Structure and Dynamics of Matter, Germany, 2021
263. Jelena Vuckovic, *NSF Workshop on The Future of Semiconductors and Beyond*, Feb. 2021
264. Jelena Vuckovic, *Quantum Leap Challenge Institute on Hybrid Quantum Architectures and Networks*, University of Illinois Urbana-Champaign, Nov. 2020
265. Jelena Vuckovic, *16th Annual Spring Symposium of the IEEE SFBA Nanotechnology Council, "Quantum Computing: Nano based Devices, Challenges and Applications,"* November 2020
266. Jelena Vuckovic, *Army Science Planning and Strategy Meetings (ASPSMs)*, Army Research Laboratory, Nov. 2020
267. Jelena Vuckovic, *Workshop on Machine Learning and Optical Systems*, Boston Chapter of IEEE Photonics Society, Oct. 2020
268. Jelena Vuckovic, *IBM Quantum Summit*, September 15-17, 2020
269. Jelena Vuckovic, *Virtual Workshop on Quantum-Enabling Laser Technologies (QELT)*, Quantum Economic Development Consortium (QED-C), September 2020

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270. Jelena Vuckovic, *Optical Society of America Incubator Workshop on Flat Optics: Recent Advances and Future Opportunities*, Washington DC, February 2020
 271. Jelena Vuckovic, *Stanford Photonics Research Center (SPRC) Workshop on Novel Optics & Photonics Materials for New and Existing High-Volume Applications*, January 15, 2020
 272. Jelena Vuckovic, *Quantum Foundry Workshop*, U. Chicago and Argonne National Lab, Discovery Partners Institute, Jan 2020
 273. Jelena Vuckovic, *EU-US-Japan International Symposium on Quantum Technology (ISQT)*, Kyoto, Japan, December 16-17, 2019
 274. Logan Su, Jelena Vuckovic, *Workshop on Quantum and Topological Nanophotonics (QTN-2019)*, NTU, Singapore, December 12-14, 2019
 275. Jelena Vuckovic, *Symposium on 125 Years of Stanford Electrical Engineering*, Stanford University, Nov. 13, 2019
 276. Jelena Vuckovic, *AIM Photonics Members Meeting*, Cadence Design Systems, Inc., San Jose, CA, Oct. 2019
 277. Jelena Vuckovic, *NSF convergence workshop on quantum simulators*, National Science Foundation, Arlington, VA, Sept. 2019
 278. Kiyoul Yang, Jelena Vuckovic, *1st Special Symposium on Silicon Photonic of the Future (SSPhF 2019)*, Silverado Resort and Spa, Napa, California, June 17th – 19th, 2019
 279. Jinhie Skarda, Jelena Vuckovic, *2nd North American Workshop on Silicon Photonics for High Performance Computing (SPHPC Workshop)*, Estes Park, Rocky Mountains, CO, May 29-30, 2019
 280. Jelena Vuckovic, *Symposium on "Diamond Photonics - Physics, Technologies and Applications"*, EPFL, Lausanne, Switzerland, May 19th- 22nd, 2019
 281. Jelena Vuckovic, *System-X Spring Workshop*, Stanford University, May 2019
 282. Jelena Vuckovic, *Electronic Materials Symposium*, Stanford University, May 10th 2019
 283. Jelena Vuckovic, "Whats Next in Integrated Optics – Hot Topics at CLEO: 2019," *CLEO-QELS*, San Jose, CA, May 2019
 284. Jelena Vuckovic, Workshop on "Will quantum computing actually work?!" *CLEO*, San Jose, May 2019
 285. Jelena Vuckovic, *ARO workshop on attojoule photonics/optoelectronics*, Stanford, Feb. 28-March 1, 2019
 286. Jelena Vuckovic, *Workshop on Emerging Directions and Opportunities in Quantum Science*, Kavli Institute for Theoretical Physics (KITP), Santa Barbara, Feb 22--24, 2019
 287. Jelena Vuckovic, *Photonics for Quantum (PfQ) Workshop*, Rochester Institute of Technology, Rochester, NY, January 23-25, 2019
 288. Jelena Vuckovic, *Quantum Physics of the Universe Summit (POTUS)*, Caltech-Google, January 12-14, 2019

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289. Jelena Vuckovic, *Workshop on Advanced Data Center Architectures and Technologies*, Stanford, Dec. 2018
 290. Marina Radulaski, Jelena Vuckovic, *Workshop on SiC quantum devices*, Royal Society, London, UK, Nov. 2018
 291. Jelena Vuckovic, *System-X Fall Conference*, Stanford University, Nov. 2018
 292. Jelena Vuckovic, *System-X Spring Conference*, Stanford University, May 2018
 293. Shuo Sun, Jelena Vuckovic, *Annual Workshop for the Advanced Light Source Users* Lawrence Berkeley National Laboratory, Berkeley, CA, Oct. 2018
 294. Jelena Vuckovic, *Second Meeting of the National Academies AMO2020 Decadal Survey Committee*, Washington, DC on September 19-20, 2018.
 295. Jelena Vuckovic, *Industrial Technology Research Institute (ITRI)*, Hsinchu, Taiwan, June 2018
 296. Alex Piggott, Jelena Vuckovic, *First North American Workshop on Silicon Photonics for High Performance Computing (SPHPC Workshop)*, Fort Collins, CO, May 17-18 (2018)
 297. Jelena Vuckovic, *Symposium on the Latest Achievements in Physics*, on the occasion of the *20 Years of the Foundation Prof. Dr. Marko V. Jaric*, Belgrade, Serbia, March 23-24, 2018
 298. Jelena Vuckovic, *BoydFest*, Stanford, March 2nd, 2018
 299. Jelena Vuckovic, *Future of Photonics, US Technology Summit*, Huawei, Santa Clara, January 2018
 300. Jelena Vuckovic, “Quantum light sources,” *Quantum Physics of the Universe Summit (POTUS)*, Caltech-SpaceX, January 12-14, 2018
 301. Marina Radulaski, Jelena Vuckovic, 5th international workshop on “Engineering of Quantum Emitter properties” *the Institute for Quantum Computing in Waterloo*, Canada, Dec 13-15, 2017
 302. Jelena Vuckovic, “Quantum photonic networks,” *NSF-Convergence workshop on Quantum Elements of Secure Communication*, Washington, DC, Dec. 3-5, 2017
 303. Jelena Vuckovic, *Arbitrary and Reconfigurable Optics SPRC Workshop*, Stanford, November 2017
 304. Jelena Vuckovic, *System-X Fall Conference*, Stanford University, Nov. 2017
 305. Jelena Vuckovic, *System-X Spring Conference*, Stanford University, May 2017
 306. Jelena Vuckovic, *Starshot Lightsail Workshop, Breakthrough Initiative*, Caltech, Pasadena, Oct. 2017
 307. Vuckovic group, invited experimental demo at *Sci Foo (Science Foo Camp)*, Google/O’Reilly Media, Googleplex, Mountain View, CA, August 2017
 308. Jelena Vuckovic, *Single Photon Workshop 2017*, Boulder, Colorado, USA, July 31st - August 4th 2017

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309. Jelena Vuckovic, *PRACQSYS 17 (Principles and Applications of Control in Quantum Systems)*, University of Washington, Seattle, July 17-20, 2017
 310. Shuo Sun, Jelena Vuckovic, *Optical Society of America Incubator Workshop on Integrated Quantum Photonics with Quantum Dots*, Washington, DC, June 18-20, 2017
 311. Jelena Vuckovic, *Workshop on Modern Trends in Solid State Quantum Physics*, Institute of Science and Technology (IST), Austria, June 6-8, 2017
 312. Jelena Vuckovic, *System-X Fall Conference*, Stanford University, Nov. 2016
 313. Jelena Vuckovic, *System-X Conference, plenary session*, Stanford University, May 2016
 314. Kai Mueller, Jelena Vuckovic, *Workshop on "Light-matter interactions in low dimensions"*, Institute for Theoretical Atomic, Molecular, and Optical Physics (ITAMP) at the Harvard-Smithsonian Center for Astrophysics, Cambridge, MA June 29th-July 1st, 2015
 315. Marina Radulaski, Jelena Vuckovic, *First International Symposium on SiC Spintronics*, Vadstena, Sweden, June 15-17 (2015)
 316. Jelena Vuckovic, *System-X meeting*, May 2015
 317. Jelena Vuckovic, *Stanford University Photonics Retreat*, Pacific Grove, CA, on April 10-12, 2015
 318. Jelena Vuckovic, *Kick-off workshop of the European Cooperation in Science and Technology (EU COST) Action MPI403 Nanoscale Quantum Optics*, Belgrade, Serbia, April 2015
 319. Tom Babinec, Jelena Vuckovic, *Workshop on Quantum Plasmonics*, Benasque, Spain, March 2015
 320. Jelena Vuckovic, "Quantum technologies," *Systems-X kick-off meeting*, Stanford, CA, Nov. 2014
 321. Jan Petykiewicz and Jelena Vuckovic, "Design and implementation of nanophotonic circuits for communications and biosensing," *CIS Round Table and Review*, Stanford University, CA, May 2014
 322. Jelena Vuckovic, "Coherent control of quantum dots in optical nanocavities," Topical Workshop on "From atomic to mesoscale: the role of quantum coherence in systems of various complexities," *Institute for Theoretical Atomic, Molecular, and Optical Physics (ITAMP)*, Cambridge, Massachusetts, USA March 10-12, 2014
 323. Jelena Vuckovic, *PRACQSYS 13 (Principles and Applications of Control in Quantum Systems)*, August 20-23, 2013, Monterey, CA
 324. Armand Rundquist, Arka Majumdar, Michal Bajcsy, Dirk Englund, Andrei Faraon, Erik D. Kim, and Jelena Vuckovic, "Strong photon–photon and photon–phonon interactions in a coupled quantum dot–photonic crystal nanocavity," *The 11th International Workshop on Nonlinear Optics and Excitation Kinetics in Semiconductors (NOEKS 11)*, Stuttgart, Germany, September 23 -27, 2012
 325. Jelena Vuckovic, *2012 Karles Invitational Quantum Information Science and Technology Conference*, Naval Research Laboratory, Washinton DC, Aug 27-28, 2012

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326. Sonia Buckley, Jelena Vuckovic, "Gallium phosphide photonic crystal cavities for enhancing NV center emission," *Frontiers of Diamondoid Science*, Stanford University, Stanford, CA, June 2012.
 327. Gary Shambat, Jelena Vuckovic, *CIS Adcom Meeting*, Stanford University, May 2012
 328. Gary Shambat, Jelena Vuckovic, *CMOS Emerging Technologies Meeting*, Whistler, BC, June 2011
 329. Jelena Vuckovic, "Ultralow threshold electrically injected nanocavity lasers and modulators," *CIS Roundtable and review meeting*, Stanford, CA, May 2011
 330. Erik Kim, Jelena Vuckovic, *Quantum Dot Day*, University of Bristol, Bristol, UK (Jan 10, 2010)
 331. Jelena Vuckovic, *EE Centennial at CALTECH*, Caltech, Pasadena, CA, Nov. 5-6, 2010.
 332. Jelena Vuckovic, *CeNS Workshop "Nanosciences – Merging Disciplines,"* at the Venice International University (VIU), Italy, Sept. 20-24, 2010
 333. Jelena Vuckovic, "Photonic crystal nanocavity lasers," *Micro/Nano Laser session at the IEEE Photonics Society Semiconductor Laser Workshop, CLEO/QELS*, San Jose, May, 2010
 334. Jelena Vuckovic, "Nanophotonics for optical interconnects and light sources," *Center for Integrated Systems Round Table and Review*, Stanford University, May 18-19, 2010
 335. Jelena Vuckovic, *Stanford University Photonics Retreat*, Napa, April 2010
 336. Yiyang Gong, Jelena Vuckovic, "Nanophotonic devices for classical and quantum information processing," *NNIN Workshop on "Bridging the gap between theory and experiment: what theoretical approach is most suited to solve real problems in nanotechnology and biology,"* Stanford University, Feb. 2010
 337. Jelena Vuckovic, *Frontiers in Nanoscale Science and Technology Workshop*, Harvard University, Cambridge, MA, May 29-31, 2009
 338. Jelena Vuckovic, "Quantum nanophotonics: from optical switching with aJ control pulses at 10GHz speed, to quantum information processing," *CIS Roundtable and review meeting*, Stanford, CA, May 2009
 339. Dirk Englund, Jelena Vuckovic, *Nanoscience Winterschool*, St. Anton, Arlberg, Austria, March 1-7, 2009.
 340. Andrei Faraon and Jelena Vuckovic, workshop on Optical approaches to Topological Cluster State Computing, National Institute for Informatics (NII), Tokyo, Japan (Dec. 2008)
 341. Yiyang Gong and Jelena Vuckovic, "Plasmonic enhancement of emission from silicon nanocrystals," *G-COE International Symposium for Young Scientists*, Kyoto, Japan, October 2008
 342. Andrei Faraon, Jelena Vuckovic, "Strong light-matter interaction between quantum dots and photonic crystal cavities," *International Workshop on Fundamentals of Light-Matter Interaction*, Recife, Brazil, October 20-22, 2008
 343. Ilya Fushman, Jelena Vuckovic, "Quantum dots in photonic crystals: from quantum information processing to single photon nonlinear optics," *Quantum Cairns International Workshop*, Palm Cove, Cairns, Australia, June 30-July 3, 2008.

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344. Dirk Englund, Jelena Vuckovic, "Classical and quantum information processing with quantum dots in photonic crystals," CIPS Annual Meeting, Nanophotonics Session, MIT, Cambridge, MA, May 2008
 345. Andrei Faraon, Jelena Vuckovic, "Classical and quantum information processing using photonic crystals," *Annual Meeting of CUDOS (Centre for Ultrahigh-bandwidth Devices for Optical Systems, an ARC Centre of Excellence)*, Sydney, Australia, Feb. 2008.
 346. Jelena Vuckovic, Dirk Englund, Andrei Faraon, and Ilya Fushman, "Quantum information processing with quantum dots in photonic crystals," *Stanford Photonics Research Center Annual Meeting*, Stanford University, September 2007
 347. Ilya Fushman and Jelena Vuckovic, "Photonic Crystal Cavities for Quantum and Classical Information Processing," *Workshop on Physics of Microresonators*, University of North Carolina, Charlotte, NC, June 6-9, 2007
 348. Jelena Vuckovic, "Quantum dot-photonic crystal chips for quantum information processing," *Workshop on Hybrid approaches to scalable quantum information systems*, ITAMP - Harvard, May 24-27 2007.
 349. Jelena Vuckovic, "Nanophotonic chips for optical interconnects and quantum communication," *CIS Spring Round Table and Review*, Stanford, May 2007
 350. Jelena Vuckovic, "Nanophotonic chips for optical interconnects and quantum communication," French-Californian Workshop on Nanophotonics, Stanford March 19th
 351. Jelena Vuckovic, "Photonic crystal chips for classical and quantum information processing," *Stanford-NEC Day*, Stanford University, Feb. 16 2007.
 352. Hatice Altug and Jelena Vuckovic, "Photonic crystal devices for nano- and biophotonics," *NNIN review*, U. of Texas in Austin, Feb. 2006.
 353. Jelena Vuckovic, "Photonic Crystal Devices for Optical Interconnects," *MARCO Interconnect Focus Center (IFC) Workshop*, Stanford University, Stanford, CA March 2006.
 354. Jelena Vuckovic, "Photonic crystal devices for nanoscale and quantum photonics," *NNIN CIS Round Table and Review Meeting*, Stanford University, Stanford, CA, May 10-11 2005.
 355. Jelena Vuckovic, " Photonic crystal devices for quantum and nanoscale photonics," *DARPA Workshop on Frontiers in Quantum Device Engineering*, Los Angeles, CA, Jan. 18-19 2005.
 356. Jelena Vuckovic, "Photonic Crystal Devices for Nanophotonics and Quantum Information Processing," *Joint US-Japan Workshop on "Nanophotonics: Beyond the limit of optical technology" (NSF-MEXT Joint Symposium and Public Lecture)*, Tokyo, Japan, October 2004.
 357. Jelena Vuckovic, "MURI Center for Photonic Quantum Information Systems," *Advanced Research and Development Activity (ARDA)/Intelligence Technology Innovation Center (ITIC) Quantum Cryptography Research Conference* McLean, VA, Aug.31-Sept. 1, 2004.
 358. Jelena Vuckovic, "Photonic crystal devices for nanophotonics and quantum information processing," *Workshop on Mesoscopic Physics, Quantum Optics, and Quantum Information*, Institute for Theoretical Atomic and Molecular Physics, Harvard University, May 2004.

359. Jelena Vuckovic, “Quantum optical devices based on quantum dots in photonic crystals,” *International Symposium on Quantum Entanglement*, Stanford University, Stanford, CA, December 2003.
360. Jelena Vuckovic, “Quantum optical devices based on quantum dots in microcavities,” *Quantum Enabled Science and Technology (QUEST) Workshop*, Santa Fe, NM, August 2003.
361. Jelena Vuckovic, “Quantum information applications of microcavities,” *NSF DARPA Photonics Technology Access Program (PTAP) Optical Microresonators Workshop*, San Diego, CA July 2003.
362. Jelena Vuckovic, “Photonic crystal-based optical and quantum optical devices,” *Symposium of the Center for Fundamental Materials Research*, Michigan State University, East Lansing, MI, March 2003.
363. Jelena Vuckovic, “Paradigm shifts in devices for optoelectronics,” *CIS Autumn Roundtables and advisory committee meetings*, Stanford University, Stanford, CA, November 2002.
364. Jelena Vuckovic, “Optical and quantum optical devices in photonic crystals: from nanocavities to single-photon sources,” *Stanford Photonics Research Center (SPRC) Annual Meeting*, Stanford University, Stanford, CA, September 2002.
365. Jelena Vuckovic, “Single photons and entangled photons from a quantum dot microcavity,” *International Symposium on Quantum Entanglement*, College de France, Paris, France, June 2002.
366. Jelena Vuckovic, “Photonic bandgap materials,” *CNOM (Center for Nonlinear Optical Materials) Annual Meeting*, Stanford University, Stanford, CA, September 2000.

INVITED COLLOQUIA AND SEMINARS

367. Jelena Vuckovic, *Distinguished Quantum Colloquium*, University of Chicago, May 2022
368. Jelena Vuckovic, *Cavendish Physical Society Lecture*, Cambridge University, UK, March 2022
369. Jelena Vuckovic, *Tech Klatch*, Corning Inc, March 2022
370. Jelena Vuckovic, *Institute of Optical Science (iOS)*, Ohio State University, December 2021
371. Jelena Vuckovic, *University of Colorado Boulder Quantum Center (CUbit) Seminar*, CU Boulder, JILA & NIST, December 2021
372. Jelena Vuckovic, *LASSP/AEP seminar*, Cornell University, November 2021
373. Jelena Vuckovic, *Physics Colloquium*, University of Toronto, Canada, October 2021
374. Jelena Vuckovic, *Optics Colloquium*, University of Rochester, October 2021

375. Jelena Vuckovic, Department of Physics and Astronomy Colloquium, *University of New Mexico, Albuquerque*, New Mexico, September 2021
376. Jelena Vuckovic, *USA-Australia Transpacific Colloquium*, Monash University & ARC, August 2021
377. Jelena Vuckovic, *Ginzton Optics and Quantum Electronics (AP483) Seminar*, Stanford, May 2021
378. Jelena Vuckovic, *Stanford-Yale Faculty Speaker Series, Stanford Quantum Computing Association*, May 2021
379. Jelena Vuckovic, *EPFL Physics Institute Seminar*, EPFL, April 2021
380. Jelena Vuckovic, *Physics Colloquium*, MIT, April 2021
381. Jelena Vuckovic, *CREOL Spring 2021 Seminar Series*, CREOL, April 2021
382. Jelena Vuckovic, *Facebook Reality Labs*, Tech Talk, March 2021
383. Jelena Vuckovic, *Max Planck Lecture on Non-equilibrium Quantum Phenomena, Max Planck Institute for the Structure and Dynamics of Matter*, Hamburg, Germany, Feb. 2021
384. Jelena Vuckovic, *Berkeley's Nanoscience and Engineering (NSE) seminar series*, Jan. 2021
385. Jelena Vuckovic, *College of Optical Sciences Colloquium, University of Arizona*, January 2021
386. Jelena Vuckovic, *ACS Photonics Global Webinar*, November 2020
387. Jelena Vuckovic, *Virtual AMO Seminars (VAMOS)*, Oct. 2020
388. Jelena Vuckovic, *EE100 Seminar, Stanford*, Oct. 2020
389. Jelena Vuckovic, *Physics Research at Stanford (Phys290 seminar)*, October 2020
390. Jelena Vuckovic, *IQUIST seminar, University of Illinois at Urbana-Champaign*, October 2020
391. Jelena Vuckovic, *Physics Undergraduate Research Seminar, Stanford University*, July 2020
392. Jelena Vuckovic, *Broadcom*, May 2020
393. Jelena Vuckovic, *MIT RLE's Optics and Quantum Electronics Seminar*, April 2020
394. Jelena Vuckovic, *ECE Distinguished Seminar*, Northwestern University, November 2019
395. Jelena Vuckovic, *Distinguished Lecture Series, Molecular Foundry, Lawrence Berkeley National Laboratory (LBNL)*, Berkeley, CA, May 2019
396. Jelena Vuckovic, *JQI (Joint Quantum Institute) Seminar*, University of Maryland, May 2019
397. Jelena Vuckovic, *LMU-TUM Physics Colloquium*, Ludwig Maximilian University of Munich, and Technical University of Munich, Munich, Germany, April 2019
398. Jelena Vuckovic, *QuTech Colloquium*, Delft, Netherlands, April 2019

399. Jelena Vuckovic, *IQST Seminar, University of Stuttgart*, April 2019
400. Jelena Vuckovic, *COQUS Colloquium*, University of Vienna, Austria, April 2019
401. Jelena Vuckovic, *Max Planck Institute for Quantum Optics Colloquium, Munich, Germany*, March 2019
402. Jelena Vuckovic, *Fellows' Lunch*, Technical University of Munich – Institute for Advanced Study, Munich, Germany, March 2019
403. Jelena Vuckovic, *Apple*, Cupertino, CA, Feb. 2019
404. Jelena Vuckovic, *Joint Quantum Seminar*, Harvard University, January 2019
405. Jelena Vuckovic, *SLAC Colloquium*, SLAC, Stanford, January 2019
406. Jelena Vuckovic, *Corning Research*, Sunnivale, September 2018
407. Jelena Vuckovic, *Palo Alto Research Center (PARC)*, May 2018
408. Jelena Vuckovic, *Tech Talk, Google X*, April 2018
409. Jelena Vuckovic, *Max Planck Institute for Quantum Optics, Munich, Germany*, March 2018
410. Jelena Vuckovic, *PayPal Quantum Computing Series*, February 2018
411. Jelena Vuckovic, *Samsung Silicon Valley Speaker Series*, Samsung, San Jose, February 2018
412. Jelena Vuckovic, *Solid State Devices Seminar Series, UC Berkeley*, October 2017
413. Jelena Vuckovic, *Tech Talk, Google X, Palo Alto*, October 2017
414. Jelena Vuckovic, a short talk on “Quantum photonic technologies,” *Stanford Physics/Applied Physics Colloquium* (Sept. 2017)
415. Jelena Vuckovic, *Schottky Seminar, Technical University of Munich*, June 2017
416. Jelena Vuckovic, *Caltech Materials Research Lecture seminar series*, Caltech, Pasadena, CA, Feb. 22nd, 2017
417. Jelena Vuckovic, *Caltech Silicon Valley Alumni Luncheon*, Palo Alto, CA, Jan. 2017
418. Jelena Vuckovic, *Stanford Materials Science Colloquium*, Stanford, CA, Nov. 2016
419. Jelena Vuckovic, *Joint ITAMP/HQOC Seminar (Institute for Theoretical Atomic Physics/ Harvard Quantum Optics Center)*, Harvard, Cambridge, MA, Sep. 2016
420. Jelena Vuckovic, “Inverse design and demonstration of nanophotonic devices,” *Mentor Graphics*, Fremont, CA, Mar. 2016
421. Jelena Vuckovic, “Inverse design and demonstration of nanophotonic devices,” *Global Foundries*, Santa Clara, CA, Aug 2015
422. Jelena Vuckovic, *Physics Colloquium, University of California San Diego*, La Jolla, CA, February 2015
423. Jelena Vuckovic, *IEEE Seminar, University of Toronto, Canada*, September 2014

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424. Jelena Vuckovic, *Physics Colloquium, University of Washington, Seattle, WA, April 2014*
 425. Jelena Vuckovic, *Institute for Advanced Studies, Technical University Munich, Germany, March 2014*
 426. Jelena Vuckovic, *Knowledge at Noon, EE staff seminar, Stanford, July 2013*
 427. Jelena Vuckovic, *Seminar at the University of Nis, Serbia, May 2013*
 428. Jelena Vuckovic, *Colloquium at the University of Belgrade, Serbia, May 2013*
 429. Jelena Vuckovic, *Seminar at Institute for Physics, Humboldt University, Berlin, Germany, April 2013*
 430. Jelena Vuckovic, *Alexander Von Humboldt Lecture, Technical University of Berlin, Berlin, Germany, April 2013*
 431. Jelena Vuckovic, *Neils Bohr Institute Seminar, Copenhagen, Denmark May 2013*
 432. Jelena Vuckovic, *Schottky Seminar, Technical University Munich, Germany, April 2013*
 433. Jelena Vuckovic, "Optical nanocavities with quantum dots: from nano-lasers to bio-probes," *Optics and Quantum Electronics Seminar, MIT, March 2013*
 434. Jelena Vuckovic, "Quantum dots in optical nanocavities: from cavity QED to applications," *Physics Colloquim, UC Berkeley, Oct. 2012*
 435. Jelena Vuckovic, "Nonlinear optics at the single photon level in optical nanocavities," *Optics and Quantum Electronics Seminar, Ginzton Lab, Stanford University, Nov. 2011*
 436. Jelena Vuckovic, " Quantum dots in optical nanocavities: from cavity QED to device applications," *MIT Physics Colloquium, Nov. 2011*
 437. Jelena Vuckovic, *IFC e-seminar, Nov. 2011.*
 438. Jelena Vuckovic, " Quantum dots in optical nanocavities: from cavity QED to device applications," *Humboldt University, Berlin, Germany, May 2011*
 439. Jelena Vuckovic, " Quantum dots in optical nanocavities: from cavity QED to device applications," *Institute Colloquium, Max Planck Institute for Quantum Optics (MPQ), Munich-Garching, Germany, May 2011*
 440. Jelena Vuckovic, "Quantum dots in optical nanocavities: from cavity QED to device applications," *Physics Colloquium, Stanford University, Stanford, CA, Feb. 15, 2011*
 441. Jelena Vuckovic, "Quantum dots in nanocavities: from cavity QED to optical switches" *U.C. Berkeley Nanoscale Science and Engineering (NSE) seminars, Berkeley, October 2010*
 442. Jelena Vuckovic, *MARCO IFC e-seminar, May 2010.*
 443. Jelena Vuckovic, "Quantum dots in photonic crystals for classical and quantum information processing," *U.C. Berkeley, EECS Department, Photonics and plasmonics seminar, April 2010.*
 444. Jesse Lu, Jelena Vuckovic, "Inverse design of nanophotonics structures using complementary convex optimization," *U.C. Berkeley, EECS Department, Photonics and plasmonics seminar, March 2010.*

445. Jelena Vuckovic, *Caltech, Materials Research Lectures (MRL)*, March 2010
446. Jelena Vuckovic, Physics Colloquium, *Harvard University*, February 2010.
447. Jelena Vuckovic, "Quantum dots in photonic crystals: from quantum information processing to single photon nonlinear optics," MIT, *Optics and Quantum Electronics Seminar*, Nov. 2008
448. Jelena Vuckovic, "Quantum dots in photonic crystals: from quantum information processing to single photon nonlinear optics," *Harvard – MIT Center for Ultracold Atoms Talk Series*, November 2008
449. Jelena Vuckovic, "Quantum dots in photonic crystals: from quantum information processing to single photon nonlinear optics," Stanford University, *Ginzton Lab Seminar*, April 2008
450. Jelena Vuckovic, "Photonic crystal devices for classical and quantum information processing," Columbia University, *Department of Physics Colloquium*, November 2006.
451. Ilya Fushman and Jelena Vuckovic, "Quantum information processing with quantum dots in photonic crystals," UC Berkeley, *Quantum Computation Seminar*, April 2006.
452. Jelena Vuckovic, "Photonic crystal devices for classical and quantum information processing," University of Connecticut, Department of Physics, *Hascoe Lecture*, April. 2006.
453. Jelena Vuckovic, "Photonic crystal devices for classical and quantum information processing," Harvard University, *Engineering and Applied Science Seminar Series*, March 2006.
454. Jelena Vuckovic, "Photonic crystal devices for classical and quantum information processing," University of Toronto, *Optics and Quantum Optics Seminar*, March 2006.
455. Jelena Vuckovic, "Nanoscale and quantum photonic devices," Stanford University, *Electrical Engineering Graduate Seminar*, February 2006.
456. Jelena Vuckovic, "Generation and manipulation of classical and nonclassical light using photonic crystals," University of California Santa Barbara, *Materials Colloquium*, October 2005.
457. Jelena Vuckovic, "Generation and manipulation of classical and nonclassical light using photonic crystals," Caltech, *Joint EE-AP seminar*, May 2005.
458. Jelena Vuckovic, "Photonic crystal devices for quantum and nanoscale photonics," UC Berkeley, *AMO Seminar*, December 2004.
459. Jelena Vuckovic, "Photonic crystal devices for nanophotonics and quantum information processing," Harvard University, *Joint Atomic Physics Colloquium*, March 2004.
460. Jelena Vuckovic, "Photonic crystals and their applications in optoelectronics and quantum optics," Stanford University, Materials Science and Engineering Department, May 2003.
461. Jelena Vuckovic, "Optical and quantum optical devices based on photonic crystals," Palo Alto Research Center (PARC), February 2003.

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462. Jelena Vuckovic, "Quantum optical devices based on photonic crystals," Los Alamos National Laboratory, *Quantum Lunch Seminar Series*, January 2003.
 463. Jelena Vuckovic, "Optical and quantum optical devices based on photonic crystals," Princeton University, Electrical Engineering Department, April 2002.
 464. Jelena Vuckovic, "Optical and quantum optical devices based on photonic crystals," Stanford University, Electrical Engineering Department, April 2002.
 465. Jelena Vuckovic, "Optical and quantum optical devices based on photonic crystals," California Institute of Technology (Caltech), Applied Physics Department, April 2002.
 466. Jelena Vuckovic, "Optical and quantum optical devices based on photonic crystals," Massachusetts Institute of Technology (MIT), Electrical Engineering Department, March 2002.
 467. Jelena Vuckovic, "Photonic crystals," Stanford University, Applied Physics Department, November 2001.
 468. Jelena Vuckovic, "Photonic crystals," University of California San Diego, Electrical Engineering Department, April 2001.

REFEREED CONFERENCE PUBLICATIONS

1. "Optically-coherent color centers in integrated silicon-carbide-on-insulator photonics," Daniil M. Lukin, Melissa A. Guidry, Joshua Yang, Misagh Ghezellou, Sattwik Deb Mishra, Hiroshi Abe, Takeshi Ohshima, Jawad Ul-Hassan, Jelena Vuckovic, *Conference on Defects in Solids for Quantum Technologies (DSQT2020)*, Stockholm, Sweden, June 2022
2. "Two-emitter multi-mode cavity quantum electrodynamics using silicon carbide microdisks," Melissa A. Guidry, Daniil M. Lukin, Joshua Yang, Misagh Ghezellou, Sattwik Deb Mishra, Hiroshi Abe, Takeshi Ohshima, Jawad Ul-Hassan, Jelena Vuckovic, *Conference on Defects in Solids for Quantum Technologies (DSQT2020)*, Stockholm, Sweden, June 2022
3. "Integrated Silicon Carbide Color Centers in Novel Photonic Resonators," Joshua Yang, Daniil M. Lukin, Melissa A. Guidry, Ki Youl Yang, Jelena Vuckovic, *Conference on Defects in Solids for Quantum Technologies (DSQT2020)*, Stockholm, Sweden, June 2022
4. "Integrated Passive Nonlinear Optical Isolators," Alexander D. White, Geun Ho Ahn, Jason F. Herrmann, Felix M. Mayor, Kasper Van Gasse, Ki Youl Yang, Amir H. Safavi-Naeini, Jelena Vuckovic, *CLEO*, San Jose, May 2022
5. "Inverse-designed optical phased array with a wide steering angle," D.Vercruysse, N.V.Sapra, K.Y.Yang, and J.Vuckovic, *CLEO*, San Jose, May 2022
6. "Experimental Demonstration of Boundaries along a Synthetic Frequency Dimension," Avik Dutt, Luqi Yuan, Ki Youl Yang, Kai Wang, Siddharth Buddhiraju, Jelena Vuckovic, Shanhui Fan, *CLEO*, San Jose, May 2022
7. "Magnetic Control and Entanglement of Electron Spins with Bunched Electron Beams," Dylan S. Black, Jakob Grzesik, Jelena Vuckovic, Olav Solgaard, *CLEO*, San Jose, May 2022

8. "Inverse Designed Integrated Optical Filters for Optical Transmission Shaping," Geun Ho Ahn, Rahul Trivedi, Kiyoul Yang, Alexander D. White, Jelena Vuckovic, *CLEO*, San Jose, May 2022
9. "Investigation of resonant excitation and Stark tuning of negatively charged tin vacancy centers in diamond," Hope Lee, Yakub Grzesik, Daniel Riedel, Alison Rugar, Shahriar Aghaeimeibodi, Constantin Dory, and Jelena Vuckovic, *CLEO*, San Jose, May 2022
10. "All optical switching in a silicon nonlinear Fano resonator," K. Van Gasse, M. Cotrufo, K.Y. Yang, A. Alu, J. Vuckovic, *CLEO*, San Jose, May 2022
11. "Simulation of large-area metasurfaces with a distributed transition matrix method," Jinjie Skarda, Rahul Trivedi, Logan Su, Diego Ahmad-Stein, Hyounghan Kwon, Seunghoon Han, Shanhui Fan, and Jelena Vuckovic, *CLEO*, San Jose, May 2022
12. "Inverse-Designed Silicon Carbide Nanoresonators ," Joshua Yang, Ki Youl Yang, Melissa A. Guidry, Daniil M. Lukin, Jelena Vuckovic, *CLEO*, San Jose, May 2022
13. "A nanophotonic interface for tin-vacancy centers in diamond," Daniel Riedel, Alison E. Rugar, Shahriar Aghaeimeibodi, Constantin Dory, Haiyu Lu, Patrick J. McQuade, Zhi-Xun Shen, Nicholas A. Melosh, and Jelena Vučković, *CLEO*, San Jose, May 2022
14. "Geometric Four-Wave Mixing Phase-Matching in Photonic Nanoresonators," S.-P. Yu, K.Y. Yang, J. Yang, J.A. Black, D. Carlson, T. Briles, M.A. Guidry, D.M. Lukin, J. Vuckovic, and S.B. Papp, *CLEO*, San Jose, May 2022
15. "Inverse Design of Multi-Layer Foundry-Fabricated Optical Vortex Beam Emitters," Alexander D. White, Logan Su, Ki Youl Yang, Daniel I. Shahar, Siddharth Ramachandran, Jelena Vuckovic, *CLEO*, San Jose, May 2022
16. "Bright, narrow-linewidth color centers in Silicon Carbide-on-Insulator microresonators," Daniil M. Lukin, Melissa A. Guidry, Joshua Yang, Sattwik Deb Mishra, Misagh Ghezellou, Hiroshi Abe, Takeshi Ohshima, Jawad Ul-Hassan, Jelena Vuckovic, *CLEO*, San Jose, May 2022
17. "Multimode quantum correlations of soliton microcombs in silicon carbide microrings," Melissa A. Guidry, Daniil M. Lukin, Ki Youl Yang, Rahul Trivedi, Jelena Vuckovic, *CLEO*, San Jose, May 2022
18. "Multi-wavelength, multi-mode optical interconnects using soliton microcombs," K.Y. Yang, A.D. White, F. Ashtiani, C. Shirpurkar, S.V. Pericherla, L. Chang, H. H. Song, K. Zou, H. Zhou, K. Pang, J. Yang, M. A. Guidry, D. M. Lukin, H. Hao, L. Trask, G.H. Ahn, A. Netherton, T.C. Brilles, J. R. Stone, L. Rechtman, J. S. Stone, K. Van Gasse, J. Skarda, L. Su, D. Vercruyse, J.P. W. MacLean, S. Aghaeimeibodi, M. J. Li, D.A.B. Miller, D. Marom, S.B. Papp, A.E. Willner, J.E. Bowers, P. J. Delfyett, F. Aflatouni, and J. Vuckovic, *CLEO*, San Jose, May 2022
19. "80-channel WDM-MDM communication link utilizing a Photonic Crystal Resonator and Inverse-Designed Mode-Division Multiplexers," Chinmay Shirpurkar, Erwan Lucas, Kiyoul Yang, Jizhao Zang, Su-Peng Yu, Joshua Yang, Melissa Guidry, Daniil Lukin, Srinivas Varma, Lawrence Trask, Jelena Vuckovic, Scott B. Papp, and Peter Delfyett, *CLEO*, San Jose, May 2022

20. "Towards Inverse Design Nonlinear Photonics in 4H-SiC," Joshua Yang, Ki Youl Yang, Melissa A. Guidry, Daniil M. Lukin, Jelena Vuckovic, *APS March Meeting*, Chicago, IL, March 2022
21. "Achieving high cooperativity between a semiconductor defect center and a superconducting resonator," Eric I. Rosenthal, Gitanjali Mutani, Christopher P. Anderson, Sattwik Deb Mishra, Wentao Jiang, Felix Mayor, Sultan Malik, Amir H. Safavi-Naeini, Jelena Vuckovic, *APS March Meeting*, Chicago, IL, March 2022
22. "Cavity Quantum Electrodynamics in Silicon Carbide Photonics with Color Centers," Daniil M. Lukin, Melissa A. Guidry, Joshua Yang, Sattwik Deb Mishra, Hiroshi Abe, Takeshi Ohshima, Jawad Ul-Hassan, Jelena Vuckovic, *APS March Meeting*, Chicago, IL, March 2022
23. "Multimode quantum correlations of soliton microcombs in silicon carbide photonics," Melissa A. Guidry, Daniil M. Lukin, Ki Youl Yang, Rahul Trivedi, Jelena Vuckovic, *APS March Meeting*, Chicago, IL, March 2022
24. "Achieving high cooperativity for a semiconductor color center in a superconducting resonator," Eric Rosenthal, Jelena Vuckovic, *APS March Meeting*, Chicago, IL, March 2022
25. "A nanophotonic interface for tin vacancy qubit in diamond," Daniel Riedel, Alison Rugar, Shahriar Aghaeimeibodi, Constantin Dory, Haiyu Lu, Patrick J. McQuade, Zhi-Xun Shen, Nicholas A. Melosh, and Jelena Vučković, *SPIE Photonics West*, San Francisco, CA, January 2022
26. "Quantum control of microwave-to-optical transducers for inhomogeneous broadening compensation," Sattwik Deb Mishra, Rahul Trivedi, Amir H. Safavi-Naeini, and Jelena Vuckovic, *WQED workshop* (2021)
27. "A nanophotonic interface for tin-vacancy spin qubits in diamond," Shahriar Aghaeimeibodi, Alison E. Rugar, Daniel Riedel, Constantin Dory, Sattwik Deb Mishra, Shuo Sun, Haiyu Lu, Patrick J. McQuade, Zhi-Xun Shen, Nicholas A. Melosh, and Jelena Vučković, *SPIE Optics and Photonics*, San Diego, CA, Aug. 2021
28. "Quantum control of microwave-to-optical transducers for inhomogeneous broadening compensation," Sattwik Deb Mishra, Rahul Trivedi, Amir H. Safavi-Naeini, and Jelena Vuckovic, *CLEO* (2021)
29. "Inverse-designed Optical Vortex Beam Emitters," A.D.White, K.Y.Yang, J.Vuckovic, *CLEO* (2021)
30. "Inverse Design of Visible Integrated Photonics for an Ultracold Strontium Optical Clock," G. Spektor, D. Carlson, Z. Newman, J.L. Skarda, N. Sapra, L. Su, Y.M. Tso, S. Jammi, A. Ferdinand, A. Rakholia, W. Lunden, M. Boyd, K. Srinivasan, C. Ropp, A. Agrawal, V. Aksyuk, J. Vučković, S. B. Papp, *CLEO* (2021)
31. "Inverse-designed optical link for chip-to-chip communication," K.Y.Yang, A.D.White, F.Ashtiani, L.Chang, G.H.Ahn, A. Netherton, J. Skarda, L.Su, D.Vercruysse, J.MacLean, S.Aghaeimeibodi, J.E.Bowers, F.Aflatouni, J.Vuckovic, *CLEO* (2021)
32. "Inverse Spectral Design of Kerr Microcomb Pulses," Erwan Lucas, Su-Peng Yu, Geun Ho Ahn, Kiyoul Yang, Jelena Vuckovic, Scott B. Papp, *CLEO* (2021)

33. "Observation of arbitrary topological windings of a non-Hermitian band," Kai Wang, Avik Dutt, Ki Youl Yang, Casey Wojcik, Jelena Vuckovic, and Shanhui Fan, *CLEO* (2021)
34. "Narrow linewidth tin-vacancy centers in diamond waveguides," Alison E. Rugar, Shahriar Aghaeimeibodi, Constantin Dory, Haiyu Lu, Patrick J. McQuade, Sattwik Deb Mishra, Shuo Sun, Zhi-Xun Shen, Nicholas A. Melosh, Jelena Vuckovic, *CLEO* (2021)
35. "Narrow linewidth tin-vacancy centers in diamond waveguides," Alison E. Rugar, Shahriar Aghaeimeibodi, Constantin Dory, Haiyu Lu, Patrick J. McQuade, Sattwik Deb Mishra, Shuo Sun, Zhi-Xun Shen, Nicholas A. Melosh, Jelena Vuckovic, *APS March Meeting* (2021)
36. "Inverse design of on chip microresonator dispersion," Geun Ho Ahn, Kiyoul Yang, Jinhie Skarda, Rahul Trivedi, Jelena Vuckovic, *Photonics West*, San Francisco, CA, Feb. 2021
37. "Inverse Spectral Design of Kerr Microcomb Pulses," Erwan Lucas, Su-Peng Yu, Geun Ho An, Kiyoul Yang, Jelena Vuckovic, Scott Papp, *Photonics West*, San Francisco, CA, Feb. 2021
38. "Generation of single-photon and two-photon pulses from a self-assembled quantum dot," Lukas Hanschke, Kevin Fischer, Jakob Wierzbowski, Stefan Appel, Daniil Lukin, Shuo Sun, Rahul Trivedi, Malte Kremser, Tobias Simmet, Constantin Dory, Jelena Vuckovic, Jonathan Finley and Kai Müller, *QD2020*, Munich, Germany
39. "Towards inverse-designed optical interconnect," Jinhie Skarda, Kiyoul Yang, Melissa Guidry, Geun Ho Ahn, Jelena Vuckovic, *IEEE Optical Interconnects Conference*, Montreal, Canada, July 2020
40. "Broadband Tuning and Microwave Control of Color Centers in Silicon Carbide," Alexander D. White, Daniil M. Lukin, Melissa A. Guidry, Rahul Trivedi, and Jelena Vuckovic, *CLEO*, San Jose, CA, June 2020
41. "Inverse-designed optical interconnect based on multimode photonics and mode-division multiplexing," Ki Youl Yang, Jinhie Skarda, Farshid Ashtiani, Melissa A. Guidry, Avik Dutt, Shanhui Fan, Firooz Aflatouni, and Jelena Vuckovic, *CLEO*, San Jose, CA, June 2020
42. "Inverse design of microresonator dispersion for nonlinear optics," Geun Ho Ahn, Kiyoul Yang, Jinhie Skarda, Jelena Vuckovic, *CLEO*, San Jose, CA, June 2020
43. "Optical parametric oscillation using 4H-SiC-on-insulator nanophotonics," Melissa A. Guidry, Ki Youl Yang, Daniil M. Lukin, Joshua Yang, Jelena Vuckovic, *CLEO*, San Jose, CA, June 2020
44. "Generation of Tin-Vacancy Centers in Diamond via Shallow Ion Implantation and Subsequent Diamond Overgrowth," Alison E. Rugar, Haiyu Lu, Constantin Dory, Shuo Sun, Patrick J. McQuade, Zhi-Xun Shen, Nicholas A. Melosh, and Jelena Vuckovic, *CLEO*, San Jose, CA, June 2020
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47. "Second-order Nonlinear Frequency Conversion and Integrated Color Centers in Silicon Carbide Nanophotonics," Melissa Guidry, Daniil Lukin, Kiyoul Yang, Constantin Dory, Jelena Vuckovic, *APS March Meeting*, Denver, CO, March 2020
48. "Photon blockade in Tavis Cumming model," Rahul Trivedi, Marina Radulaski, Kevin Fischer, Shanhui Fan and Jelena Vuckovic, *APS March Meeting*, Denver, CO, March 2020
49. "Point-coupling Hamiltonian for frequency-independent linear optical devices," Rahul Trivedi, Kevin Fischer, Sattwik Deb Mishra and Jelena Vuckovic, *APS March Meeting*, Denver, CO, March 2020
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53. "Inverse design and demonstration of laser driven particle accelerators on chip, Neil V. Saprà, Ki Youl Yang, Dries J. F. Vercruyssen, Kenneth Liddle, Dylan Black, Logan Su, Rahul Trivedi, Yu Miao, Olav Solgaard, Bob Byer, Jelena Vučković, *SPIE Photonics West*, San Francisco, February 2020
54. "Nonlinear isolation in an inverse-designed silicon photonic circuit," Ki Youl Yang, Jinhie Skarda, Michele Cotrufo, Geun Ho Ahn, Andrea Alu, and Jelena Vuckovic, *Frontiers in Optics*, Washington, DC, September 2019
55. "Foundry-fabricated inverse designed photonics," Alexander Y. Piggott, Logan Su, Neil Saprà, Akhilesh Khope, Andy Netherton, John Bowers, and Jelena Vuckovic, *Frontiers in Optics*, Washington, DC, September 2019
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59. "Inverse designed Fano resonance in silicon microresonators," Ki Youl Yang, Jinhie Skarda, Michele Cotrufo, Geun Ho Ahn, Andrea Alu and Jelena Vuckovic, *CLEO*, San Jose, CA, May 2019

60. "Inverse Designed Cavity-Waveguide Couplers," Jinhie Skarda, Ki Youl Yang, Dries Vercruyssen, Neil V. Sapiro, Logan Su, and Jelena Vuckovic, *CLEO*, San Jose, CA, May 2019
61. "Optical Characterization of Single Tin-Vacancy Centers in Diamond Nanopillars," Alison E. Rugar, Constantin Dory, Shuo Sun, and Jelena Vuckovic, *CLEO*, San Jose, CA, May 2019
62. "Diamond Photonic Circuits," Constantin Dory, Dries Vercruyssen, Ki Youl Yang, Neil V. Sapiro, Alison E. Rugar, Shuo Sun, Daniil M. Lukin, Alexander Y. Piggott, Jingyuan L. Zhang, Marina Radulaski, Konstantinos G. Lagoudakis, Logan Su and Jelena Vuckovic, *CLEO*, San Jose, CA, May 2019
63. "4H-SiC-on-Insulator Platform for Quantum Photonics," Daniil Lukin, Constantin Dory, Marina Radulaski, Shuo Sun, Sattwik Deb Mishra, Melissa Guidry, Dries Vercruyssen, and Jelena Vuckovic, *CLEO*, San Jose, CA, May 2019
64. "Frequency tunable single-photon emission from a single atomic defect in a solid," Shuo Sun, Jingyuan Linda Zhang, Kevin A. Fischer, Michael J. Burek, Constantin Dory, Konstantinos G. Lagoudakis, Yan-Kai Tzeng, Marina Radulaski, Yousif Kelaita, Amir Safavi-Naeini, Zhi-Xun Shen, Nicholas A. Melosh, Steven Chu, Marko Loncar and Jelena Vuckovic, *CLEO*, San Jose, CA, May 2019
65. "Lithographically-defined strain control in atomically-thin semiconductors," Leo Yu, Linda Zhang, Jelena Vuckovic, Tony Heinz, *APS March Meeting*, Boston, MA, March 2019
66. "Optimized Photonic Quantum Hardware in Diamond," Constantin Dory, Dries Vercruyssen, Ki Youl Yang, Neil V. Sapiro, Alison E. Rugar, Shuo Sun, Daniil M. Lukin, Alexander Y. Piggott, Jingyuan L. Zhang, Marina Radulaski, Konstantinos G. Lagoudakis, and Jelena Vuckovic, *APS March Meeting*, Boston, MA, March 2019
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70. "Analysis of weakly-driven multi-emitter cQED systems", Rahul Trivedi, Marina Radulaski, Kevin Fisher and Jelena Vuckovic, *APS March Meeting*, Boston, MA, March 2019
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 75. "Generation of single-photon and two-photon pulses from a quantum two-level system," Lukas Hanschke, Kevin Fischer, Jakob Wierzbowski, Stefan Appel, Daniil Lukin, Shuo Sun, Rahul Trivedi, Malte Kremser, Tobias Simmet, Constantin Dory, Jelena Vuckovic, Jonathan Finley, Kai Mueller, *ICPS (34th International Conference on the Physics of Semiconductors)*, Montpellier, France, August 2018
 76. "Generation of pulsed quantum light," Kevin Fischer, Jelena Vuckovic, *Quantum Science Gordon Research Conference*, Stonehill College in Easton, MA, July 29 - August 03, 2018
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 80. "Continuous Angle Beam Steering Using Spatiotemporal Frequency-Comb Control in Dielectric Metasurfaces," Amr Shaltout, Konstantinos Lagoudakis, Jorik van de Groep, Soo Jin Kim, Jelena Vuckovic, Vladimir Shalaev, Mark Brongersma, *CLEO*, San Jose, CA, May 2018
 81. "Fabrication Constrained Inverse Design of a 3-channel Wavelength Demultiplexer," Alexander Y. Piggott, Logan Su, Neil V. Sapra, Jan Petykiewicz, and Jelena Vuckovic, *CLEO*, San Jose, CA, May 2018
 82. "Fully-automated grating coupler design through adjoint optimization," Logan Su, Rahul Trivedi, Neil V. Sapra, Alexander Y. Piggott, Dries Vercruyse, and Jelena Vuckovic, *CLEO*, San Jose, CA, May 2018

83. “Diamond Color Center Integration with a Silicon Carbide Photonics Platform,” Marina Radulaski, Yan-Kai Tzeng, Jingyuan Linda Zhang, Hitoshi Ishiwata, Konstantinos G. Lagoudakis, Constantin Dory, Kevin A. Fischer, Yousif A. Kelaita, Shuo Sun, Peter C. Maurer, Kassem Alassaad, Gabriel Ferro, Zhi-Xun Shen, Nicholas A. Melosh, Steven Chu, Jelena Vuckovic, *CLEO*, San Jose, CA, May 2018
84. “Two-photon bundles from a single two-level system,” L. Hanschke, K. A. Fischer, J. Wierzbowski, T. Simmet, C. Dory, J.J. Finley, J. Vučković, K. Müller, *CLEO*, San Jose, CA, May 2018
85. “Quantum dot single photon sources with ultra-low multi-photon error rate,” Lukas Hanschke, Kevin A. Fischer, Stefan Appel, Daniil Lukin, Jonathan J. Finley, Jelena Vuckovic, and Kai Müller, *CLEO*, San Jose, CA, May 2018
86. “Enhanced Solid-State High-Harmonic Generation from a Silicon Metasurface,” Hanzhe Liu, Cheng Guo, Giulio Vampa, Jingyuan Linda Zhang, Tomas Sarmiento, Meng Xiao, Philip H. Bucksbaum, Jelena Vučković, Shanhui Fan, and David A. Reis, *CLEO*, San Jose, CA, May 2018
87. “Level-set Fabrication Constraints for Gradient-based Optimization of Optical Devices,” Dries Verduyck, Logan Su, Rahul Trivedi, Neil V. Sapiro, Alexander Y. Piggott, and Jelena Vučković, *CLEO*, San Jose, CA, May 2018
88. “Spontaneous and Stimulated Emission from Quantum Optical Systems,” Rahul Trivedi*, Kevin Fischer, Shanshan Xu, Shanhui Fan and Jelena Vuckovic, *CLEO*, San Jose, CA, May 2018
89. “Strongly Cavity-Enhanced Spontaneous Emission from Silicon-Vacancy Centers in Diamond,” Jingyuan Linda Zhang, Shuo Sun, Michael Burek, Constantin Dory, Yan-Kai Tzeng, Kevin A. Fischer, Yousif Kelaita, Konstantinos G. Lagoudakis, Marina Radulaski, Zhi-Xun Shen, Nicholas A. Melosh, Steven Chu, Marko Lončar, Jelena Vuckovic, *CLEO*, San Jose, CA, May 2018
90. “Scattering of Coherent Pulses from Quantum-Optical Systems,” Kevin A. Fischer, Rahul Trivedi, Vinay Ramasesh, Irfan Siddiqi, Jelena Vučković, *CLEO*, San Jose, CA, May 2018
91. “Strain-controlled Quantum Dots in Atomically-Thin Semiconductors,” Leo Yu, Sven Borghardt, Jingyuan Linda Zhang, Jelena Vuckovic, Tony Heinz, *APS March Meeting*, Los Angeles, California, March 2018
92. “Stimulated and spontaneous emission from open quantum systems,” Rahul Trivedi, Kevin Fisher, Shanshan Xu, Shanhui Fan and Jelena Vuckovic, *APS March Meeting*, Los Angeles, California, March 2018
93. “Hybrid Diamond-Silicon Carbide Color Center Photonics,” Marina Radulaski, Yan-Kai Tzeng, Jingyuan Linda Zhang, Konstantinos G. Lagoudakis, Hitoshi Ishiwata, Constantin Dory, Kevin A. Fischer, Yousif A. Kelaita, Shuo Sun, Peter C. Maurer, Kassem Alassaad, Gabriel Ferro, Zhi-Xun Shen, Nicholas Melosh, Steven Chu and Jelena Vučković, *APS March Meeting*, Los Angeles, California, March 2018
94. “Enhanced spontaneous emission from quantum dots coupled to metal nano-antennas,” A. Regler, A. A. Lyamkina, A. Nolinder, A. K. Bakarov, A. I. Toropov,

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 99. “Complete Coherent Control of Silicon-Vacancies in Diamond Nanopillars Containing Single Defect Centers”, Linda Zhang, Konstantinos Lagoudakis, Jelena Vuckovic, Gordon Research Conference on Quantum Sensing, *Chinese University of Hong Kong*, July 2-8, 2017
 100. “Mollow Triplets with Tunable Interactions in Double Lambda Systems of Individual Hole Spins,” K. G. Lagoudakis, K. A. Fischer, T. Sarmiento, P. L. McMahon, M. Radulaski, J. L. Zhang, Y. Kelaita, C. Dory, K. Müller & J. Vučković, *PLMCN*, Munich, Germany, June 2017
 101. “Emission of two-photon pulses from a quantum two-level system,” Kevin A. Fischer, Lukas Hanschke, Jakob Wierzbowski, Tobias Simmet, Constantin Dory, Jonathan J. Finley, Jelena Vuckovic, Kai Mueller, *PLMCN*, Munich, Germany, June 2017
 102. “Re-excitation as a Source of Error in Single-Photon Sources Based on Quantum Two-Level Systems,” Kevin A. Fischer, Kai Müller, Konstantinos G. Lagoudakis, Jelena Vučković, *CLEO Europe*, Munich, Germany, June 2017 [poster]
 103. “Towards a fully integrated accelerator on a chip,” K. Wooton et al, *Proceedings of the IPAC 2017 (International Particle Accelerators Conference)*, Copenhagen, Denmark, May 2017
 104. “Effects of Homodyne Interference on Jaynes-Cummings Emission for Single Photon Generation,” Kevin A. Fischer, Yousif A. Kelaita, Neil V. Saprà, Constantin Dory, Konstantinos G. Lagoudakis, Kai Müller, and Jelena Vučković, *CLEO-QELS*, San Jose, CA, May 2017
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106. “Scalable Quantum Photonics with Single Color Centers in Silicon Carbide,” Marina Radulaski, Matthias Widmann, Matthias Niethammer, Jingyuan Linda Zhang, Sang-Yun Lee, Torsten Rendler, Konstantinos G. Lagoudakis, Nguyen Tien Son, Erik Janzen, Takeshi Ohshima, Jörg Wrachtrup, and Jelena Vučković, *CLEO-QELS*, San Jose, CA, May 2017
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108. “Complete Quantum Control of a Single Silicon-vacancy Center in a Diamond Nanopillar,” J. L. Zhang, K. G. Lagoudakis, Y.-K. Tzeng, C. Dory, M. Radulaski, Y. Kelaita, Z.-X. Shen, N. A. Melosh, S. Chu, J. Vučković, *APS March Meeting*, New Orleans, Louisiana, March 2017
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110. “Observation of Mollow Triplets with Tunable Interactions in Double Lambda Systems of Individual Hole Spins,” K. G. Lagoudakis, K. A. Fischer, T. Sarmiento, M. Radulaski, L. J. Zhang, P. L. McMahon, Y. Kelaita, C. Dory, K. Müller & J. Vučković, *APS March Meeting*, New Orleans, Louisiana, March 2017
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114. “Remarkable interplay between strain and parasitic absorption unravelling the best route for Ge based Si-compatible lasing at room temperature,” Shashank Gupta, Jan Petykiewicz, Donguk Nam, David Sukhdeo, Jelena Vuckovic, Krishna Saraswat, *IEEE Photonics Conference (IPC)*, Waikoloa, Hawaii, Oct. 2016
115. “Dramatic and previously overlooked interaction between strain and parasitic absorption in germanium with major implications for Si-compatible lasing,” Shashank Gupta, Jan

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116. “Low Strain Silicon-Vacancy Color Centers in Diamond Nanopillar Arrays,” Jingyuan Linda Zhang, Hitoshi Ishiwata, Thomas M. Babinec, Marina Radulaski, Kai Müller, Konstantinos G. Lagoudakis, Constantin Dory, Zhi-Xun Shen, Nicholas A. Melosh, Jelena Vučković, *CLEO/QELS*, San Jose, CA, June 2016
117. “Emitter-Cavity Coupling in Hybrid Silicon Carbide-Nanodiamond Microdisk Resonators,” Marina Radulaski, Yan-Kai Tzeng, Jingyuan Linda Zhang, Hitoshi Ishiwata, Konstantinos Lagoudakis, Veronique Souliere, Gabriel Ferro, Zhi-Xun Shen, Nicholas A. Melosh, Steven Chu, Jelena Vuckovic, *CLEO/QELS*, San Jose, CA, June 2016
118. “Inverse Design of a Wavelength Demultiplexer,” Alexander Y. Piggott, Jesse Lu, Konstantinos G. Lagoudakis, Thomas Babinec, Jan Petykiewicz, Jelena Vuckovic, *CLEO/QELS*, San Jose, CA, June 2016
119. “Nanocavity-enabled Ultrafast Generation of Highly-indistinguishable Photons,” Kevin A. Fischer, Kai Müller, Constantin Dory, Tomas Sarmiento, Konstantinos G. Lagoudakis, Armand Rundquist, Yousif Kelaita, Jelena Vuckovic, *CLEO/QELS*, San Jose, CA, June 2016
120. “Complete Coherent Control of a Strongly Coupled Quantum Dot-Cavity Polariton System,” Constantin Dory, Kevin A. Fischer, Kai Müller, Konstantinos G. Lagoudakis, Tomas Sarmiento, Armand Rundquist, Linda Zhang, Yousif Kelaita, Jelena Vuckovic, *CLEO/QELS*, San Jose, CA, June 2016
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123. “3C-SiC microdisks for visible photonics,” M. Radulaski, T. M. Babinec, J. L. Zhang, S. M. Buckley, Y. A. Kelaita, K. Müller, K. G. Lagoudakis, K. AlAssaad, G. Ferro, J. Vučković, *16th International Conference on Silicon Carbide and Related Materials*, Giardini Naxos, Italy, October 4 - 9, 2015
124. “Strained Ge Nanowire with High-Q Optical Cavity for Ge Laser Applications,” Donguk Nam, Jan Petykiewicz, David S. Sukhdeo, Shashank Gupta, Sonia Buckley, Jelena Vučković and Krishna C. Saraswat, *IEEE Group IV Photonics Conference*, Vancouver, BC, Aug. 2015
125. “Nanophotonics in novel $\chi^{(2)}$ -materials: (111)-GaAs and 3C-SiC,” Marina Radulaski, Sonia M. Buckley, Jingyuan L. Zhang, Jan Petykiewicz, Kai Mueller, Konstantinos G. Lagoudakis, Thomas M. Babinec, Kassem AlAssaad, Gabriel Ferro, Klaus Biermann and Jelena Vuckovic, *OSA Nonlinear Optics Topical meeting*, Hawaii, July 2015

Highlight: best student paper and presentation award.

126. “Optical Pumping of Individual Spins in Self-Assembled and Site-Controlled Quantum Dots,” K. G. Lagoudakis, P. L. McMahon, K. Fischer, K. M. Mueller, T. Sarmiento, D. Dalacu, P. J. Poole, M. E. Reimer, V. Zwiller, Y. Yamamoto and J. Vuckovic, *CLEO-QELS*, San Jose, CA, May 2015
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128. “A novel, highly-strained structure with an integrated optical cavity for a low threshold germanium laser,” Shashank Gupta, Donguk Nam, Jan Petykiewicz, David Sukhdeo, Jelena Vuckovic, Krishna Saraswat, *CLEO-QELS*, San Jose, CA, May 2015
129. “Fluorescent Nanodiamonds from Molecular Diamond Seed,” Hitoshi Ishiwata, Jingyuan Linda Zhang, Robert Edgington, Thomas M. Babinec, Kai Müller, Konstantinos G. Lagoudakis, Nicholas A. Melsoh, Zhi-Xun Shen, and Jelena Vučković, *CLEO-QELS*, San Jose, CA, May 2015
130. “Visible Photoluminescence in Cubic (3C) Silicon Carbide Coupled to High Quality Microdisk Resonators,” Marina Radulaski, Thomas M. Babinec, Kai Müller, Konstantinos G. Lagoudakis, Jingyuan Linda Zhang, Sonia Buckley, Yousif A. Kelaita, Kassem Alassaad, Gabriel Ferro and Jelena Vučković, *CLEO-QELS*, San Jose, CA, May 2015
131. “Hybrid diamond-silicon carbide structures incorporating Si-vacancies in diamond as quantum emitters,” Jingyuan Linda Zhang, Hitoshi Ishiwata, Marina Radulaski, Thomas M. Babinec, Kai Mueller, Konstantinos G. Lagoudakis, Gabriel Ferro, Nicholas A. Melosh, Zhi-Xun Shen, Jelena Vuckovic, *CLEO-QELS*, San Jose, CA, May 2015
132. “Towards on-chip generation, routing and detection of non-classical light,” F. Flassig, M. Kaniber, G. Reithmaier, K. Mueller, A. Andrejew, R. Gross, J. Vuckovic and J. J. Finley, *SPIE Photonics West*, San Francisco, CA, Feb. 2015
133. “Non-classical higher-order photon correlations from a solid-state cQED system,” M. Bajcsy, A. Rundquist, A. Majumdar, T. Sarmiento, K. Fischer, K. G. Lagoudakis, S. Buckley, A. Y. Piggott, and J. Vuckovic, *DAMOP*, Madison, WI June 2014
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