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RESEARCH INTEREST & AREA OF EXPERTISE:

Micro-/Nano-photonics, Quantum Photonics, Nonlinear Photonics, and Mechanical Photonics.

ACADEMIC POSITIONS:

- Assistant Professor** **University of Rochester, Rochester, NY.** (2011 – present)
Department of Electrical & Computer Engineering (primary appointment)
Institute of Optics (secondary appointment)
- Postdoctoral Scholar** **California Institute of Technology, Pasadena, CA.** (2007 – 2010)
Department of Applied Physics, with Professor Oskar J. Painter

EDUCATION:

- PhD in Optics, 2006** **University of Rochester, Rochester, NY**
Advisor: Professor Govind P. Agrawal
- MS in Optics, 2003** **University of Rochester, Rochester, NY**
- MS in Applied Physics, 1999** **Tsinghua University, Beijing, China**
- BS in Applied Physics, 1996** **Tsinghua University, Beijing, China**

RESEARCH:

- 2011 – Present** **Dept. of ECE, University of Rochester (UR)** **Rochester, NY**
- **Principal Investigator & Group Leader – Nanophotonics group**
Nanophotonic devices, physics and application.
Nonlinear nanophotonics, integrated quantum photonics, and nano-optomechanics.
- 2007 – 2010** **Dept. of Applied Physics, California Institute of Technology (Caltech)** **Pasadena, CA**
- **Postdoctoral scholar** – Cavity optomechanics and nonlinear silicon photonics
- 1999 – 2006** **Institute of Optics, University of Rochester** **Rochester, NY**
- **Research Assistant** – Silicon photonics, nonlinear fiber optics, quantum optics, and optical communication.
- 1995 – 1999** **Department of Physics, Tsinghua University** **Beijing, China**
- **Research Assistant** – Liquid crystal display, guided-wave optics.

TEACHING:

- **ECE436/OPT464/MSC437**, Nanophotonic and Nanomechanical Devices: **Fall, 2013-2016; Spring, 2012.**
- **ECE210**, Circuits and Microcontrollers for Scientists and Engineers: **Spring, 2013-2016.**
- **ECE230**, Electromagnetic Waves: **Fall, 2011.**

DEPARTMENTAL AND PROFESSIONAL SERVICES:

- Program Committee, Micro- and Nano-photonics Devices, Conference on Laser and Electro-Optics/Quantum Electronics and Laser Science (CLEO/QELS) 2014 – 2017.
- Program Committee, Optoelectronic Devices and Integration (OEDI), OSA Topical Meeting 2014.
- Organizing Chair, Nano-Optomechanics Symposium, Frontier in Optics 2012/Laser Science XXVIII.
- Graduate Admission Committee, Dept. of ECE, 2011-2016.
- University Faculty Council Meeting, 2011-2014.
- Academic Advisor, ECE Class 2015, Class 2019.
- PhD and Master thesis committee.
- Review panelist for NSF and DOE.
- Reviewer for more than 20 top-profile professional journals in physics, optics, and photonics.

Scientific Publications

- Published 70 peer-reviewed journal articles. **H-Index = 33 and total citations more than 4500**, according to the Google Scholar.
(http://scholar.google.com/citations?user=7A_TLroAAAAJ&hl=en)
- Received three patents.

PEER-REVIEWED JOURNAL PUBLICATIONS:

1. H. Liang, Y. He, R. Luo, and **Q. Lin**, “*Ultra-broadband dispersion engineering of nanophotonic waveguides*,” *Opt. Express* **24**, in press (2016).
2. W. C. Jiang and **Q. Lin**, “*Chip-scale cavity optomechanics in lithium niobate*,” *Sci. Rep.* **6**, 36920 (2016).
3. X. Lu, S. Rogers, T. Gerrits, W. C. Jiang, S. W. Nam, and **Q. Lin**, “*Heralding single photons from a high-Q silicon microdisk*,” *Optica* **3**, 1331 (2016).
4. S. Rogers, D. Mulkey, X. Lu, W. C. Jiang, and **Q. Lin**, “*High visibility time-energy photons from a silicon nanophotonic chip*,” *ACS Photon.* **3**, 1754 (2016).
5. W. Yu, W. C. Jiang, **Q. Lin**, and T. Lu, “*Cavity optomechanical spring sensing of single molecules*,” *Nature Comm.* **7**, 12311 (2016).
6. X. Lu, W. C. Jiang, J. Zhang, and **Q. Lin**, “*Biphoton statistics of quantum light generated on a silicon chip*,” *ACS Photon.* **3**, 1626 (2016).
7. R. Luo, H. Liang, and **Q. Lin**, “*Multicolor cavity soliton*,” *Opt. Express* **24**, 016777 (2016).
8. X. Lu, J. Y. Lee, and **Q. Lin**, “*High-frequency and high-quality silicon carbide optomechanical microresonators*,” *Sci. Rep.* **5**, 17005 (2015).
9. J. Lee, X. Lu, and **Q. Lin**, “*High-Q silicon carbide photonic-crystal cavities*,” *Appl. Phys. Lett.* **106**, 041106 (2015).
10. W. C. Jiang, X. Lu, J. Zhang, O. Painter, and **Q. Lin**, “*Silicon-chip source of bright photon pairs*,” *Opt. Express* **23**, 20884 (2015).
11. S. Rogers, X. Lu, W. C. Jiang, and **Q. Lin**, “*Twin photon pairs in a high-Q silicon microresonator*,” *Appl. Phys. Lett.* **107**, 041102 (2015).
12. Y. Wen, X. Wu, R. Li, **Q. Lin**, and G. He, “*Five-partite entanglement generation in a high-Q microresonator*,” *Phys. Rev. A* **91**, 042311 (2015).
13. X. Lu, J. Lee, S. Rogers, and **Q. Lin**, “*Optical Kerr nonlinearity in a high-Q silicon carbide microresonator*,” *Opt. Express* **22**, 30826 (2014).
14. X. Lu, S. Rogers, W. C. Jiang, and **Q. Lin**, “*Selective engineering of cavity resonance for frequency matching in optical parametric processes*,” *Appl. Phys. Lett.* **105**, 151104 (2014).
15. W. Yu, W. C. Jiang, **Q. Lin**, and T. Lu, “*Coherent optomechanical oscillation of a silica microsphere in an aqueous environment*,” *Opt. Express* **22**, 21421 (2014).
16. W. C. Jiang, J. Zhang, N. G. Usechak, and **Q. Lin**, “*Dispersion engineering of high-Q silicon microresonator via thermal oxidation*,” *Appl. Phys. Lett.* **105**, 031112 (2014).
17. X. Lu, J. Y. Lee, P. X.-L. Feng, and **Q. Lin**, “*High Q silicon carbide microdisk resonator*,” *Appl. Phys. Lett.* **104**, 181103 (2014).
18. W. C. Jiang, J. Zhang, and **Q. Lin**, “*Compact suspended silicon microring resonators with ultra-high quality factor*,” *Opt. Express* **22**, 1187 (2014).
19. W. C. Jiang and **Q. Lin**, “*Tuning group-velocity dispersion by optical force*,” *Opt. Lett.* **38**, 2604 (2013).
20. X. Lu, J. Y. Lee, P. X.-L. Feng, and **Q. Lin**, “*Silicon carbide microdisk resonator*,” *Opt. Lett.* **38**, 1304 (2013).
21. A. G. Krause, M. Winger, T. D. Blasius, **Q. Lin**, and O. Painter, “*A high-resolution microrchip optomechanical accelerometer*,” *Nature Photon.* **6**, 768 (2012).
22. W. C. Jiang, X. Lu, J. Zhang, and **Q. Lin**, “*High-frequency silicon optomechanical oscillator with an ultralow threshold*,” *Opt. Express* **20**, 15991 (2012).
23. L. Zhang, **Q. Lin**, Y. Yue, Y. Yan, R. G. Beausoleil, A. Agarwal, L. C. Kimerling, J. Michel, and A. E. Willner, “*On-chip octave-spanning supercontinuum in nanostructured silicon waveguides using ultralow pulse energy*,” *IEEE J. Sel. Top. Quant. Electron.* **18**, 1799 (2012).
24. L. Zhang, **Q. Lin**, Y. Yue, Y. Yang, R. G. Beausoleil, and A. E. Willner, “*Silicon waveguide with four zero-dispersion wavelengths and its application in on-chip octave-spanning supercontinuum generation*,” *Opt. Express* **20**, 1685 (2012).
25. L. Zhang, Y. Yan, Y. Yue, **Q. Lin**, O. Painter, R. G. Beausoleil, and A. E. Willner, “*On-chip two-octave supercontinuum generation by enhancing self-steepening of optical pulses*,” *Opt. Express* **19**, 11584 (2011).

26. A. Safavi-Naeini, T. Mayer Alegre, J. Chan, M. Eichenfield, M. Winger, **Q. Lin**, J. Hill, D. Chang, and O. Painter, “*Electromagnetically induced transparency and slow light with optomechanics*,” *Nature* **472**, 69 (2011).
27. **Q. Lin**, J. Rosenberg, D. Chang, R. Camacho, M. Eichenfield, K. J. Vahala, and O. Painter, “*Coherent mixing of mechanical excitations in nano-optomechanical structures*,” *Nature Photon.* **4**, 236 (2010).
28. J. Rosenberg*, **Q. Lin***, and O. Painter, “*Static and dynamic wavelength routing via the optical gradient force*,” *Nature Photon.* **3**, 478 (2009). (* equally contributed authors)
29. **Q. Lin**, J. Rosenberg, X. Jiang, K. J. Vahala, and O. Painter, “*Mechanical oscillation and cooling actuated by the optical gradient force*,” *Phys. Rev. Lett.* **103**, 103601 (2009).
30. X. Jiang, **Q. Lin**, J. Rosenberg, K. Vahala, and O. Painter, “*High-Q double-disk microcavities for cavity optomechanics*,” *Opt. Express* **17**, 20911 (2009).
31. **Q. Lin**, T. J. Johnson, C. P. Michael, and O. J. Painter, “*Adiabatic self-tuning in a silicon microdisk optical resonator*,” *Opt. Express* **16**, 14801 (2008).
32. **Q. Lin**, T. J. Johnson, R. Perahia, C. P. Michael, and O. J. Painter, “*A proposal for highly tunable parametric oscillation in silicon micro-resonators*,” *Opt. Express* **16**, 10596 (2008).
33. **Q. Lin**, O. J. Painter, and G. P. Agrawal, “*Nonlinear optical phenomena in silicon waveguides: Modeling and applications*,” *Opt. Express* **15**, 16604 (2007) (**Invited Review**).
34. J. Zhang, **Q. Lin**, G. Piredda, R. W. Boyd, G. P. Agrawal, and P. M. Fauchet, “*Anisotropic nonlinear response of silicon in the near-infrared region*,” *Appl. Phys. Lett.* **90**, 071113 (2007).
35. **Q. Lin**, J. Zhang, G. Piredda, R. W. Boyd, P. M. Fauchet, and G. P. Agrawal, “*Dispersion of silicon nonlinearities in the near-infrared region*,” *Appl. Phys. Lett.* **90**, 021113 (2007).
36. J. Zhang, **Q. Lin**, G. Piredda, R. W. Boyd, G. P. Agrawal, and P. M. Fauchet, “*Optical solitons in a silicon waveguide*,” *Opt. Express* **15**, 7682 (2007).
37. L. Yin, **Q. Lin**, and G. P. Agrawal, “*Soliton fission and supercontinuum generation in silicon waveguides*,” *Opt. Lett.* **32**, 391 (2007).
38. **Q. Lin**, F. Yaman, and G. P. Agrawal, “*Photon pair generation in optical fibers through four-wave mixing: role of Raman scattering and pump polarization*,” *Phys. Rev. A* **75**, 023803 (2007).
39. **Q. Lin** and G. P. Agrawal, “*Silicon waveguides for creating quantum-correlated photon pairs*,” *Opt. Lett.* **31**, 3140 (2006).
40. **Q. Lin**, J. Zhang, P. M. Fauchet, and G. P. Agrawal, “*Ultrabroadband parametric generation and wavelength conversion in silicon waveguides*,” *Opt. Express* **14**, 4786 (2006).
41. L. Yin, **Q. Lin**, and G. P. Agrawal, “*Dispersion tailoring and soliton propagation in silicon waveguides*,” *Opt. Lett.* **31**, 1295 (2006).
42. F. Yaman, **Q. Lin**, and G. P. Agrawal, “*A novel design for polarization-independent single-pump fiber-optic parametric amplifiers*,” *IEEE Photon. Technol. Lett.* **18**, 2335 (2006).
43. **Q. Lin** and G. P. Agrawal, “*Raman response function for silica fibers*,” *Opt. Lett.* **31**, 3086 (2006).
44. **Q. Lin**, F. Yaman, and G. P. Agrawal, “*Photon-pair generation by four-wave mixing inside optical fibers*,” *Opt. Lett.* **31**, 1286 (2006).
45. **Q. Lin**, F. Yaman, and G. P. Agrawal, “*Raman-induced polarization-dependent gain in parametric amplifiers pumped with orthogonally polarized lasers*,” *IEEE Photon. Technol. Lett.* **18**, 397 (2006).
46. F. Yaman, **Q. Lin**, S. Radic, and G. P. Agrawal, “*Fiber-optic parametric amplifiers in the presence of polarization-mode dispersion and polarization-dependent loss*,” *J. Lightwave Technol.* **24**, 3088 (2006).
47. A. N. Pinto, J. F. de Rocha, **Q. Lin**, and G. P. Agrawal, “*Optical versus electrical dispersion compensation: Role of timing jitter*,” *J. Lightwave Technol.* **24**, 387 (2006).
48. **Q. Lin**, R. Jiang, C. F. Marki, C. J. McKinstrie, R. M. Jopson, J. Ford, G. P. Agrawal, and S. Radic, “*40-Gb/s Optical Switching and Wavelength Multicasting in A Two-Pump Parametric Device*,” *IEEE Photon. Technol. Lett.* **17**, 2376 (2005).
49. Y. Deng, **Q. Lin**, F. Lu, G. P. Agrawal, and W. H. Knox, “*Broadly tunable femtosecond parametric oscillator using a photonic crystal fiber*,” *Opt. Lett.* **30**, 1234 (2005).
50. F. Yaman, **Q. Lin**, G. P. Agrawal, and S. Radic, “*Pump noise transfer in dual-pump fiber-optic parametric amplifiers: walk-off effects*,” *Opt. Lett.* **30**, 1048 (2005).
51. F. Yaman, **Q. Lin**, S. Radic, and G. P. Agrawal, “*Impact of pump-phase modulation on dual-pump fiber-optic parametric amplifiers and wavelength converters*,” *IEEE Photon. Technol. Lett.* **17**, 2053 (2005).
52. **Q. Lin** and G. P. Agrawal, “*Intrapulse depolarization in optical fibers: A classical analog of spin decoherence*,” *Opt. Lett.* **30**, 821 (2005).

53. **Q. Lin** and G. P. Agrawal, “*Effects of polarization mode dispersion on cross-phase modulation in dispersion-managed WDM systems*”, J. Lightwave Technol. **22**, 977 (2004) (**Invited Review**).
54. F. Lu, **Q. Lin**, W. H. Knox, and G. P. Agrawal, “*Vector soliton fission*”, Phys. Rev. Lett. **93**, 183901 (2004).
55. **Q. Lin** and G. P. Agrawal, “*Vector theory of four-wave mixing: polarization effects in fiber-optic parametric amplifiers*”, J. Opt. Soc. Am. B **21**, 1216 (2004).
56. F. Yaman, **Q. Lin**, S. Radic, And G. P. Agrawal, “*Impact of dispersion fluctuations on dual-pump fiber-optic parametric amplifiers*”, IEEE Photonic Technol. Lett. **16**, 1292 (2004).
57. **Q. Lin** and G. P. Agrawal, “*Effects of polarization mode dispersion on fiber-based parametric amplification and wavelength conversion*”, Opt. Lett. **29**, 1114 (2004).
58. **Q. Lin** and G. P. Agrawal, “*Impact of fiber birefringence on optical switching with nonlinear optical loop mirrors*”, IEEE J. Sel. Top. Quan. Electron. **10**, 1107 (2004).
59. **Q. Lin** and G. P. Agrawal, “*Vector Theory of cross-phase modulation: role of nonlinear polarization rotation*”, IEEE J. Quan. Electron. **40**, 958 (2004).
60. F. Yaman, **Q. Lin**, and G. P. Agrawal, “*Effects of polarization mode dispersion in dual-pump fiber-optic parametric amplifiers*”, IEEE Photon. Technol. Lett. **16**, 431 (2004).
61. **Q. Lin**, K. Wright, G. P. Agrawal, and C. Guo, “*Spectral responsivity and efficiency of metal-based femtosecond autocorrelation technique*”, Opt. Comm. **242**, 279 (2004).
62. S. Radic, C. J. McKinstrie, R. M. Jopson, J. C. Centanni, **Q. Lin** and G. P. Agrawal, “*Record performance of parametric amplifier constructed with highly nonlinear fiber*”, Electron. Lett. **39**, 838 (2003).
63. **Q. Lin** and G. P. Agrawal, “*Impact of polarization-mode dispersion on measurement of zero-dispersion wavelength through four-wave mixing*”, IEEE Photon. Technol. Lett. **15**, 1719 (2003).
64. **Q. Lin** and G. P. Agrawal, “*Statistics of polarization dependent gain in fiber-based Raman amplifiers*”, Opt. Lett. **28**, 227 (2003).
65. **Q. Lin** and G. P. Agrawal, “*Vector Theory of stimulated Raman scattering and its application to fiber-based Raman amplifiers*”, J. Opt. Soc. Am. B **20**, 1616 (2003).
66. **Q. Lin** and G. P. Agrawal, “*Correlation theory of polarization mode dispersion in optical fibers*”, J. Opt. Soc. Am. B. **20**, 292 (2003).
67. **Q. Lin** and G. P. Agrawal, “*Polarization mode dispersion induced fluctuations during Raman amplification in optical fibers*”, Opt. Lett. **27**, 2194 (2002).
68. **Q. Lin** and G. P. Agrawal, “*Pulse broadening induced by dispersion fluctuations in optical fibers*”, Opt. Comm. **206**, 313 (2002).
69. H. Zhu, **Q. Lin**, and B. Zhang, “*Analyses of system error in the measurement of liquid crystal empty cell gap by means of interferometry*”, Displays **21**, 121 (2000).
70. **Q. Lin**, H. Zhu, Y. Tang, F. Yang, and H. Gao, “*Accurate optical determination of liquid crystal tilt angle by the half-leaky guided mode technique*”, Displays **21**, 111 (2000).

PATENTS AND INVENTIONS:

1. J. Lee, O. Painter, and **Q. Lin**, “*Optomechanical disk vibratory gyroscope.*” US Patent #: 9,389,079.
2. A. Krause, M. Winger, T. Blaisus, **Q. Lin**, and O. Painter, “*Optomechanical accelerometer.*” WO Patent #: WO2013131067 A1.
3. O. Painter, M. Winger, **Q. Lin**, A. Safavi-Naeini, and T. Alegre, “*Systems and methods for tuning a cavity.*” US Patent #: 20,130,121,633.

REVIEW BOOK CHAPTER:

1. A. T. Heiniger, **Q. Lin**, P. M. Fauchet, “*Manipulation and transportation of biomolecules using optical forces in silicon photonic structures*”, *Handbook of Silicon Photonics*, L. Vivien and L. Pavesi, Ed. (CRC Press, Taylor & Francis Group, 2013), Chapter 14.4.
2. F. Yaman, **Q. Lin**, and G. P. Agrawal, “*Fiber-optic parametric amplifiers for lightwave systems*”, *Guided Wave Optical Components and Devices*, B. P. Pal Ed. (Academic Press, 2005), Chapter 7.

CONFERENCE PRESENTATIONS:

1. **Q. Lin**, “*Silicon and silicon carbide nonlinear and quantum photonics.*” SPIE Photonics Asia, (**Invited Talk**), Beijing, China (2016).

2. **Q. Lin**, “*High-Q micro/nanoresonators for nonlinear/quantum photonics and sensing*,” ACM International Conference on Nanoscale Computing and Communication (ACS NanoCom) 2016, (**Invited Talk**), New York City (2016).
3. **Q. Lin**, “*Quantum light on silicon photonic chips*,” Frontier on Optics/Laser Science 2016, (**Invited Talk**), Rochester, NY (2016).
4. **Q. Lin**, “*High-Q micro/nanoresonators for nonlinear/quantum photonics and sensing*,” Advanced Electromagnetics Symposium 2016, (**Invited Talk**), Malaga, Spain (2016).
5. **Q. Lin**, “*Silicon and silicon carbide nonlinear photonics*,” The 7th International Conference on Information Optics and Photonics (CIOP), (**Invited Talk**), Nanjing, China (2015).
6. **Q. Lin**, “*Silicon carbide nanophotonics*,” Latin America Optics & Photonics Conference (LAOP), (**Tutorial Talk**), Cancun, Mexico (2014).
7. **Q. Lin**, “*Silicon carbide nano-optomechanics*,” IEEE Photonics 2014, (**Invited Talk**), La Jolla, CA (2014).
8. **Q. Lin**, “*Silicon microresonators for nonlinear optical, quantum optical, and optomechanical applications*,” OSA Frontiers in Optics 2012, FTh1G5 (**Invited Talk**), Rochester, NY (2012).
9. **Q. Lin**, “*Manipulating Motion with Light: Cavity Optomechanics in Nanophotonic Structures*,” IEEE Photonics 2010, TuL4 (**Invited Talk**), Denver, CO (2010).
10. **Q. Lin**, J. Rosenberg, D. Chang, and O. Painter, “*Force-Mediated Parametric Generation in Nano-Optomechanical Structures*,” CLEO/QELS’10, QTuA1, San Jose, CA (2010).
11. J. Rosenberg, **Q. Lin**, and O. Painter, “*Sensitive Phonon Detection in a Spiderweb Optomechanical Resonator*,” CLEO/QELS’10, JMC1, San Jose, CA (2010).
12. **Q. Lin**, J. Rosenberg, X. Jiang, K. J. Vahala, and O. Painter, “*Optomechanical oscillation in a double-disk microcavity*,” CLEO/QELS’09, CMKK1 (**Invited Talk**), Baltimore, MD (2009).
13. J. Zhang, **Q. Lin**, G. Piredda, R. W. Boyd, G. P. Agrawal and P. M. Fauchet, “*Optical solitons in a silicon waveguide*,” SPIE Symposium on Integrated Optoelectronic Devices, 6898X, San Jose, CA (2008).
14. **Q. Lin**, T. J. Johnson, C. P. Michael, and O. J. Painter, “*Ultrafast self-pulsation in a silicon microdisk*,” CLEO/QELS’08, CTuT3, San Jose, CA (2008).
15. J. Zhang, **Q. Lin**, G. Piredda, R. W. Boyd, P. M. Fauchet, and G. P. Agrawal, “*Observation of optical soliton in an SOI waveguide*,” CLEO/QELS’07, **Postdeadline**, CPDA4, Baltimore, MD (2007).
16. J. Zhang, **Q. Lin**, G. Piredda, R. W. Boyd, P. M. Fauchet, and G. P. Agrawal, “*Spectral measurement of the third-order nonlinearity of bulk silicon in the near infrared region*,” CLEO/QELS’07, CMHH5, Baltimore, MD (2007).
17. **Q. Lin**, J. Zhang, G. Piredda, R. W. Boyd, P. M. Fauchet, and G. P. Agrawal, “*Anisotropic nonlinear response of silicon in the near-infrared region*,” CLEO/QELS’07, CMHH3, Baltimore, MD (2007).
18. J. Zhang, **Q. Lin**, G. Piredda, R. W. Boyd, P. M. Fauchet, and G. P. Agrawal, “*Spectral narrowing and optical soliton formation in SOI waveguides*,” 4th Intl. Conf. on Group IV Photonics (GFP07), ThC4, Tokyo, Japan (2007).
19. **Q. Lin** and G. P. Agrawal, “*Role of Raman scattering on correlated photon pairs generated through four-wave mixing*,” 9th Conference on Coherence and Quantum Optics (CQO9), CSuA7, Rochester, NY (2007).
20. J. Zhang, **Q. Lin**, G. Piredda, R. W. Boyd, G. P. Agrawal and P. Fauchet, “*Dispersion and anisotropy of Si’s third-order nonlinearity from 1.2 to 2.4 μm* ,” 4th Intl. Conf. on Group IV Photonics (GFP07), WP29, Tokyo, Japan (2007).
21. **Q. Lin** and G. P. Agrawal, “*Correlated photon pairs using silicon waveguides*,” OSA annual meeting, FThI4, Rochester, NY (2006).
22. L. Yin, **Q. Lin**, and G. P. Agrawal, “*Soliton fission and continuum generation in silicon waveguides*,” OSA annual meeting, FWM5, Rochester, NY (2006).
23. **Q. Lin** and G. P. Agrawal, “*An accurate model for the Raman response function in silica fibers*,” CLEO/QELS’06, CMW5, Long Beach, CA (2006).
24. L. Yin, **Q. Lin**, and G. P. Agrawal, “*Dispersion tailoring and soliton propagation in Si waveguides*,” CLEO/QELS’06, CMEE7, Long Beach, CA (2006).
25. J. Zhang, **Q. Lin**, G. P. Agrawal, and P. M. Fauchet, “*Broadband Optical Amplification and Wavelength Conversion by Four-Wave Mixing in Silicon Waveguides*,” 3rd Intl. Conf. on Group IV Photonics, P37, Ottawa, Canada (2006).
26. F. Yaman, **Q. Lin**, and G. P. Agrawal, “*A novel design for polarization-independent single-pump fiber-optic parametric amplifiers*,” CLEO/QELS’06, JWB59, Long Beach, CA (2006).
27. **Q. Lin**, F. Yaman, S. Radic, and G. P. Agrawal, “*Fundamental noise limits in dual-pump fiber-optic parametric amplifiers and wavelength converters*,” CLEO/QELS’05, CTuT4, Baltimore, MD (2005).
28. F. Yaman, **Q. Lin**, S. Radic, and G. P. Agrawal, “*Impact of pump-phase modulation on fiber-optic parametric amplifiers and wavelength converters*,” CLEO/QELS’05, CTuJ6, Baltimore, MD (2005).
29. F. Yaman, **Q. Lin**, S. Radic, and G. P. Agrawal, “*Impact of pump-phase modulation on the performance of dual-pump fiber-optic parametric amplifiers*,” OFC05, OWN3, p.3, Anaheim, CA (2005).

30. **Q. Lin** and G. P. Agrawal, “*Optical switching in a nonlinear fiber-loop mirror: Effects of polarization-mode dispersion*”, OSA annual meeting, FWI3, Rochester, NY (2004).
31. F. Yaman, **Q. Lin**, and G. P. Agrawal, “*Walk-off effects in dual-pump parametric amplifiers*”, OSA annual meeting, FMB2, Rochester, NY (2004).
32. **Q. Lin** and G. P. Agrawal, “*Intrapulse depolarization in optical fibers*”, OSA annual meeting, FThM6, Rochester, NY (2004).
33. **Q. Lin**, F. Yaman, and G. P. Agrawal, “*Impact of randomly varying fiber dispersion on dual-pump fiber optic parametric amplifiers*”, NLGW04, MC36, Toronto, Ontario, CA (2004).
34. F. Yaman, **Q. Lin**, and G. P. Agrawal, “*Impact of polarization mode dispersion on dual-pump fiber optic parametric amplifiers*”, NLGW04, MC31, Toronto, Ontario, CA (2004).
35. **Q. Lin** and G. P. Agrawal, “*PMD effects in fiber-based Raman amplifiers*”, OFC03, TuC4, Atlanta, GA (2003).
36. **Q. Lin** and G. P. Agrawal, “*Effects of PMD on fiber-based parametric amplification and wavelength conversion*”, OSA annual meeting’03, TuP3, Tucson, AZ (2003).
37. H. Zhu, **Q. Lin**, and B. Zhang, “*Analysis of system error in measurement of liquid crystal empty cell gap*”, IUMRS-ICAM’99 (Intl. Conf. on Advanced Materials, Intl. Union of Materials Research Societies), P78, Beijing, China (1999).
38. **Q. Lin**, F. Yang, and H. Zhu, “*Accurate optical determination of liquid crystal tilt angle by the half-leaky guided mode technique*”, IUMRS-ICAM’99, P79, Beijing, China (1999).

STUDENTS’ CONFERENCE PRESENTATIONS:

1. H. Liang, Y. He, R. Luo, and **Q. Lin**, “*Ultra-broadband Dispersion Engineering of Nanophotonic Devices with Five Zero-Dispersion Wavelengths*,” Proc. Conf. Laser and Electro-Optics/Quantum Electronis and Laser Science (CLEO/QELS), JTh2A.114 (2016).
2. X. B. Sun, H. Liang, R. Luo, X. -C. Zhang, and **Q. Lin**, “*Suppressing the Fundamental Thermo-Optic Noises of A High-Q Microresonator*,” Proc. Conf. Laser and Electro-Optics/Quantum Electronis and Laser Science (CLEO/QELS), STu1E.2 (2016).
3. W. C. Jiang and **Q. Lin**, “*A high-frequency regenerative optomechanical oscillator on lithium-niobate-on-insulator platform*,” Proc. Conf. Laser and Electro-Optics/Quantum Electronis and Laser Science (CLEO/QELS), STu4E.6 (2016).
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