

## DR. XIAOMIN JIN

### PROFESSIONAL PREPARATION

- Ph.D. in Electrical Engineering, University of Illinois at Urbana-Champaign, USA, 2001.
- B.E. and M.S. in Electronic Engineering, Tsinghua University, Beijing, China, 1992 and 1996.

### APPOINTMENTS

1. *Electrical Engineering, California Polytechnic State University, San Luis Obispo, California, Assistant Professor, 09/04-8/10, Associate Professor, 09/10-8/15, Professor 9/2015-present*, Research on optoelectronic devices and optical communication.
2. *Department of Electrical and Computer Engineering, Temple University, Philadelphia, Pennsylvania, Assistant Professor, 09/03-06/04* Research on high-speed modulation of photonic devices, all-optical switch, and device modeling, etc.
3. *OCP Inc, Elkton, Maryland, Design Engineer, 02/03- 08/03* Work in OCP Eastern-coast Design center. Design 12 Channel parallel 2.7, 3.3 Gbit/s VCSEL transmitters, PIN receivers, and 4x10 Gbit/s transceiver developments for parallel optic data links.
4. *W. L. Gore & Associates, Inc, Elkton, Maryland, Research Scientist, 05/01-02/03* Work in R&D lab on 12 Channel parallel 2.7, 3.3 Gbit/s VCSEL transmitters, PIN receivers.
5. *Corning Lasertron, Inc, Bedford, Massachusetts, Senior Engineer, 02/01-04/01* Work on DFB lasers, 10-Gbit/s integrated electro-absorption modulator-lasers (EMLs), and OC192 photo-detector module.

### GRANTS:

1. **NSF OISE-IREES award 1029153 2010-2014**, “International: Engineering Research and Educational Collaboration on Gallium-Nitride-based Light Emitting Devices”, by Xiaomin Jin and Xiao-Hua Yu, Department of Electrical Engineering, California Polytechnic State University, San Luis Obispo, CA 93407 , \$147,775, funded from Sept 2010 to Aug 2014.
2. **ONR 7-N0014-08-1-1209 in 2009**, California Central Coast Research Partnership C3RP 2009, “Investigation of Nano Photonic Structure on GaN LEDs and Solar-cells Designs”, by Xiaomin Jin, funded between Jan 2009 to Dec 2009. \$35,865.
3. **ONR 6-N00014-07-1-1152 in 2008**, California Central Coast Research Partnership C<sup>3</sup>RP 2008, “Investigation of Photonic Lattice Based Gallium-Nitride Light Emitters”, Xiaomin Jin, California Polytechnic State University, Department of Electrical Engineer, San Luis Obispo, California , 2008, \$42,374.
4. **Agilent Research Grant 2007**, “Simulation of 633NM Photodetector”, \$9,432.
5. **Agilent Global Research Funding 2006 and 2007 (Contract # 07-040 and 08-146)** “Modeling and Testing of Semiconductor Lasers, Cables, and Photodiodes for Interferometer Measurement System Applications”, X. Jin, California Polytechnic State University, Department of Electrical Engineer, San Luis Obispo, California, Submitted Feb. 2006, \$43,038+ equipment \$47,832.
6. **ONR N00014-05-1-0855 in 2005**, California Central Coast Research Partnership (C<sup>3</sup>RP) 2005, “VCSEL based Optical transmitter system design using injection-locking technique”, X. Jin, California Polytechnic State University, Department of Electrical Engineer, San Luis Obispo, California, 2005, \$32,449.
7. **The State Faculty Support Grant (SFSG) Program in 2005**, “Weight-in-motion fiber optical sensor to monitor the load and speed of Vehicles on highway”, X. Jin, California Polytechnic State University, Department of Electrical Engineer, San Luis Obispo, California, 2005, \$3,700.

## PUBLICATIONS

### ● Book Chapter

Advances in Laser and Optics Research, ISBN 98-1-60741-854-2, Chapter 3, “High-speed modulation of semiconductor lasers”, by **Xiaomin Jin** and Shun-Lien Chuang, 2009.

### ● Refereed Journal Papers

1. **Xiaomin Jin**, Simeon Trieu, Gregory James Chavoor and Gabriel Michael Halpin, “Enhancing GaN LED Efficiency through Nano-Gratings and Standing Wave Analysis”, *Nanomaterials* 2018, 8(12), 1045; doi:10.3390/nano8121045
2. Halpin, G.; Robinson, T.; **Jin, X.**; Kang, X.-N.; Zhang, G.-Y, “Study of GaN LED ITO Nano-Gratings With Standing Wave Analysis” *IEEE Photonics Journal*, vol. 6, No. 3, 2014.
3. Qiujian Sun, Dong Li, Guifang Dong, **Xiaomin Jin**, Lian Duan, Liduo Wang, Yong Qiu, “Improved organic optocouplers based on a deep blue fluorescent OLED and an optimized bilayer heterojunction photosensor,” *Elsevier: Sensors and Actuators B* 188, pp879– 885, 2013.
4. **X. Jin**, Douglas Alan Cattarusa, and Michael James Marshall, “Study of Top Triangular Nano-grating on Solar Cell Using Rigorous Coupled Wave Analysis,” *Advanced Materials Research*, Vol. 571, pp. 427-432, 2012.
5. Douglas Alan Cattarusa, **X. Jin**, Xing-Xing Fu, Xiang-Ning Kang, Bei Zhang, and Guo-Yi Zhang, “Optical-Mode Study of Gallium Nitrate Based Laser Diodes,” *Advanced Materials Research*, Vol. 571, pp 476-481, 2012.
6. K. Lal, G. Chavoor, and **X. Jin**, “Wavelength Dependence of Transverse Mode Coupling With/Without E-block of GaN Laser Cavity,” *IEEE Photonics Journal*, vol. 3, No. 6, pp. 1206 – 1213, 2011.
7. Y. Sun, S. Trieu, T. Yu, Z. Chen, S. Qi, P. Tian, J. Deng, **X. Jin**, and G. Zhang, “GaN-based LEDs with a high light extraction composite surface structure fabricated by a modified YAG laser lift-off technology and the patterned sapphire substrates,” *Semiconductor Science and Technology*, Vol.26, no. 8, pp.085008(5pp), 2011.
8. S. Trieu and **X. Jin**, “Study of Top and Bottom Photonic Gratings on GaN LED with Error Grating Models,” *IEEE J. Quantum Electon.*, Vol.46, no. 10, pp.1456-1469, 2010
9. **X. Jin**, B. Zhang, F. Wang, J. Flickinger, S. Jobe, T. Dai, G.Y. Zhang, “International Engineering Research and Educational Activity on GaN Lasers and LEDs”, *International Journal of Engineering Research and Innovation (IJERI)*, Vol. 1, No. 1, p.5., Spring/Summer 2009.
10. F. Wang, W. P. Dunn, M. Jain, C. De Leo, N. Vicker, R. Savage, **X. Jin**, S. Mamedov, P. Boolchand, “The Effects of Thermal Annealing on Obliquely Deposited Ag-Ge-S Thin Films”, *Journal of Physics and Chemistry of Solids*, vol. 70, pp. 978-981, 2009.
11. **X. Jin**, B. Y. Tarng, and S. L. Chuang, “Relative Intensity Noise Study in the Injection-locked Integrated Electroabsorption Modulator-Lasers”, *Solid State Elect.*, vol. 53, pp. 95-101, 2009.
12. **X. Jin**, B. Zhang, T. Dai, W. Wei, X.-N. Kang, G.-Y. Zhang, S. Trieu, and F. Wang, “Optimization of Top Polymer Gratings to Improve GaN LEDs Light Transmission”, *OSA Journal: Chinese Optics letters (Focus Issue Nano Photics)*, vol.6, no. 10, pp. 788-790, 2008.
13. **X. Jin**, B. Zhang, T. Dai, and G. Zhang, “Effects of Transverse Mode Coupling and Optical Confinement Factor on Gallium Nitride-Based Laser Diode” *The Institute of Physics: Chinese Physics*, vol. 17, no.4, pp-1274-1278, April 2008.
14. L. Chen, J. D. Leon and **X. Jin**, “Strong Guiding of Light in Hollow Nanowire Structures” *OSA Journal: Chinese Optics letters*, vol.5, no. 9, pp. 543-545, Oct 2007.
15. **X. Jin**, B. Zhang, L. Chen, and G. Zhang, "The Optimization of Gallium Nitride-Based Laser Diode through Transverse Modes Analysis", *OSA Journal: Chinese Optics letters*, vol. 5, no. 10, Sept 2007.
16. **X. Jin** and S. L Chuang, “Bandwidth Enhancement of Fabry-Perot Quantum-well Lasers by Injection-locking”, *Solid State Electronics* 2006, vol. 50, Issue 6, pp. 1141-1149, June 2006.

17. G. Liu, **X. Jin**, and S. L. Chuang, "Novel techniques for measurement of linewidth enhancement factors of strained QW lasers using injection locking," *IEEE Photon. Tech. Lett.*, Vol. 13, pp430-432, 2001.
18. **X. Jin** and S. L. Chuang, "Microwave modulation of a quantum-well laser with and without external optical power injection," *IEEE Photon. Tech. Lett.*, vol. 13, pp 648, 2001.
19. **X. Jin**, T. Keating, and S. L. Chuang, "Theory and experiment of high-speed cross-gain modulation in semiconductor Lasers," *IEEE J. Quantum Electron.*, vol. 36, pp. 1485-1494, 2000.
20. **X. Jin** and S. L. Chuang, "Relative intensity noise characteristics of injection-locked semiconductor lasers," *Appl. Phys. Lett.*, vol. 77, pp. 1250-1252, 2000.
21. T. Keating, S. H. Park, J. Minch, **X. Jin**, and S. L. Chuang, "Optical gain measurements based on fundamental properties and comparison with many-body theory," *J. Appl. Phys.*, vol. 86, pp. 2945-2952, 1999.
22. T. Keating, **X. Jin**, S. L. Chuang, and K. Hess, "Temperature dependence of electrical and optical modulation responses of quantum-well lasers," *IEEE J. Quantum Electron.*, vol. 35, pp. 1526-1534, 1999.
23. J. Hu, B. Wu, and **X. Jin**, "Characteristic of a broadband Ti: LiNbO<sub>3</sub> optical modulator with buried electrodes and etched grooves in the buffer layer," *Fiber and Integrated Optics*, vol. 16, pp. 269-276, 1997.
24. B. Wu, G. Xu, and **X. Jin**, "Traveling wave electrode optimization for high speed electro-optic modulators using the Fourier series method," *IEE Proc. Optoelectron.*, vol. 141, pp. 381-390, 1994.

#### ● Conference Papers

1. **Xiaomin Jin**, Greg Chavoort, and Guobin Liu, "Patterned sapphire substrate and SiO<sub>2</sub> array in GaN LED," *SPIE Photonic West 2018*, the Moscone Center, San Francisco, CA, Jan 31<sup>st</sup>, 2018 .
2. Brandon Kirklen, Juan Arambulay, Christian Chuz, Scott Vollmerx and **Xiaomin Jin**, "Fog Attenuation Analysis of Visible Band for Free Space Optical Link", 2016 IEEE Summer Topical Meeting Series, July , 2016.
3. **Xiaomin Jin** and Greg Chavoort, "Position of Ag Reflection Layer and its Effect on GaN LED Light Extraction Efficiency" *Proceedings of the 15<sup>th</sup> IEEE International Conference on Nanotechnology* July 27-30, 2015, Rome, Italy.
4. **Xiaomin Jin**, Xiao-Hua Yu , Xiang-Ning Kang, Guo-Yi Zhang, Gui-Fang Dong, and Fei Wang, "Developing Global Engineers Though National/International Education Collaboration ", the 2014 ASEE Zone IV Conference: Student Success Is Our Success Developing Diverse Engineers for a Changing World through Engineering Pedagogy & Practice, Long Beach, CA, April 24-26, 2014.
5. Ashli Behilla, Tattiana K. C. Davenport, **Xiaomin Jin**, "Comparison of Triangular and Squared ITO Nano-grating of GaN LEDs", *The SPIE Optical Engineering + Applications*, San Diego, California, August 2014.
6. Juliet Chico, Gabriela Aleman, and **Xiaomin Jin**, "Optimization of Mode Pattern and Transmission Analysis of GaN LED with ITO Grating", *The SPIE Optical Engineering + Applications*, San Diego, California, August 2014.
7. Travis Robinson, Gabriel Halpin, **Xiaomin Jin**, Xiang-Ning Kang, and Guo-Yi Zhang, "Study of Nano-scale ITO Top Grating of GaN LED," *SPIE Photonic West 2014*, the Moscone Center, San Francisco, CA, 2014.
8. Ashli Behill, Gabriela Aleman, **Xiaomin Jin**, Xiang-Ning Kang, and Guo Yi Zhang, "Study of Grating Layer Location of a GaN Nano-grated LED for Improvement of Transmission Efficiency," *SPIE Photonic West 2014*, the Moscone Center, San Francisco, CA, 2014.
9. Gabriel Halpin, **Xiaomin Jin**, Xing-Xing Fu, Xiang-Ning Kang, and Guo-Yi Zhang, "Study of Top ITO Nano-gratings on GaN LEDs", *13th IEEE International Conference on Nanotechnology*, August 2013, Beijing China.

10. Gabriela Alemana, Juliet Chicoa, **Xiaomin Jin**, Xing-Xing Fu, Xiang-Ning Kang, and Guo-Yi Zhang, "Transmission Efficiency Study of Grating Layer Location of a GaN Nano-grated Structure", 13th IEEE International Conference on Nanotechnology, August 2013, Beijing China
11. **Xiaomin Jin**, Xiao-Hua Yu, XiangNing Kang, Guoyi Zhang, and Guifang Dong, "Virtual International Research/Education Center: Energy Saving LEDs, 2013 IEEE 13th International Conference on Advanced Learning Technologies, July 15-18, 2013, Beijing, China
12. Gabriel M. Halpin, **Xiaomin Jin**, Greg Chavoor, XingXing Fu, Xiang-Ning Kang, and Guo Yi Zhang, "Simulation of nanoscale ITO top grating of GaN LED," SPIE Photonic West 2013, Proceedings Volume 8619: Physics and Simulation of Optoelectronic Devices XXI.
13. Michael J. Marshall, **Xiaomin Jin**, "Study of silicon solar cell top and bottom grating location", SPIE Photonic West 2013, Proceedings Volume 8619: Physics and Simulation of Optoelectronic Devices XXI.
14. Jason Lumanlana, **Xiaomin Jin**, Xing-Xing Fu, Xiang-Ning Kang, Bei Zhang, and Guo-Yi Zhang "Transmission efficiency study of GaN LED using RCWA" International Conference on Engineering and Applied Science (ICEAS 2012), July 2012, Beijing, China. (prof. Jin presented the paper)
15. Douglas Alan Cattarusa, **Xiaomin Jin**, Xing-Xing Fu, Xiang-Ning Kang, Bei Zhang, and Guo-Yi Zhang, "Optical-Mode Study of Gallium Nitrate Based Laser Diodes", the 2012 2nd International Conference on Electronics and Optoelectronics (ICEOE2012) 27- 29, July, 2012 Shenyang, China.
16. **Xiaomin Jin**, Douglas Alan Cattarusa, and Michael James Marshall, "Study of Top Triangular Nano-grating on Solar Cell Using Rigorous Coupled Wave Analysis," the 2012 2nd International Conference on Electronics and Optoelectronics (ICEOE2012) 27- 29, July, 2012 Shenyang, China
17. Ashton Ellaboudy , Michael James Marshall, Greg Chavoor, and **Xiaomin Jin**, "Study of silicon solar cell double triangular nano-gratings", The SPIE Photonic West 2012, the Moscone Center, San Francisco, CA, January 21-26, 2012.
18. Greg Chavoor, Doug Cattarusa, **Xiaomin Jin**, Xing-Xing Fu, Xiang-Ning Kang, Bei Zhang, and Guo-Yi Zhang, "Optical Mode Pattern Study of GaN LEDs with and without Top Nano-Gratings", The SPIE Photonic West 2012, the Moscone Center, San Francisco, CA, January 21-26, 2012.
19. Greg Chavoor, **Xiaomin Jin**, Ashton Ellaboudy, Xing-Xing Fu, Xiang-Ning Kang, Bei Zhang, and Guo-Yi Zhang, "Light Extraction Improvement of GaN LEDs using Nano-scale Top Transmission Gratings", The SPIE Optical Engineering + Applications, 21-25 August 2011 in San Diego, California , 2011.
20. **Xiaomin Jin**, Ashton Ellaboudy, and Greg Chavoor, "Improvement of Solar Cell Efficiency Using Nano-scale Top and Bottom Grating", SPIE Optical Engineering + Applications, 21-25 August 2011, San Diego, California, 2011.
21. Dingran Lu, Xiao-Hua Yu, **Xiaomin Jin**, Bin Li, Quan Chen, Jianhua Zhu , "Neural Network Based Edge Detection for Automated Medical", 2011 IEEE International Conference on Information and Automation Proceedings, June 6-8 2011, Shenzhen, China, 2011.
22. Simeon Trieu, **Xiaomin Jin**, Bei Zhang , Xiang-Ning Kang , Guo-Yi Zhang, Xiong Chang , Wei Wei , Sun Yong Jian , and Fu Xing Xing "Top Transmission Grating GaN LED Simulations for Light Extraction Improvement" The SPIE Photonic West 2011, the Moscone Center, San Francisco, CA, January 22-27, 2011.
23. Simeon Trieu, **Xiaomin Jin**, Bei Zhang , Xiang-Ning Kang , Guo-Yi Zhang, Xiong Chang , Wei Wei , Sun Yong Jian , and Fu Xing Xing "Top Transmission Grating GaN LED Simulations for Light Extraction Improvement" The SPIE International Symposium on Integrated Optoelectronic Devices 2009, SPIE Photonic West 2011, San Jose, CA, January 2011.
24. S. Trieu, **X. Jin**, C. Xiong, X. X. Fu, X. Kang, G. Y. Zhang, B. Zhang, F. Wang, "Simulation and Experiment on 2PC Transmitted Diffraction Grating for GaN LEDs" Nanotech 2010, June 2010, Anaheim, CA.
25. S. Trieu, **X. Jin**, C. Xiong, X. X. Fu, X. N. Kang, G. Y. Zhang and B. Zhang, "Simulation of Three-fold Symmetric Photonic Crystal Structures on Top of GaN LEDs", CLEO 2010, May 2010, San Jose, CA.

26. Simeon Trieu and **Xiaomin Jin**, “Study of Top and Bottom Photonic Crystal Gratings on GaN LEDs using FDTD” 1st place winner paper in “Engineering and computer science-graduate level”, the 24th annual California State University Student Research Competition, San Jose, May, 2010.
27. Nicholas Hageman and **Xiaomin Jin**, “Computer Generated a Three-Dimensional Holography from Two-Dimensional Photos”, Computational Optical Sensing and Imaging (COSI), San Jose, California, USA, October 13-15, 2009.
28. **Xiaomin Jin**, Sean Jobe, Simeon Trieu, Benafsh Husain, Jason Flickinger, Tao Dai, Bei Zhang, Xiang-Ning Kang, and GuoYi Zhang, “Mode Pattern Analysis of Gallium Nitride-based Laser diodes”, The 3rd International Symposium on Photoelectronic Detection and Imaging (ISPDI 2009), Beijing, China, June 17 to 19, 2009.
29. **Xiaomin Jin**, Xiao Hua Yu, Fei Wang, Bei Zhang, and Guoyi Zhang, “Educational/Research Collaboration on Gallium-Nitride (GaN) Based Light Emitter between Cal Poly, CSULB, and PKU (China)”, the 12th CSU Regional Symposium on University Teaching, California Polytechnic State University, San Luis Obispo, May 2nd, 2009. (Presentation only)
30. **X. Jin**, D. Derickson, S. Trieu, and S. O. Agbo, “Photonics Research and Education at California Polytechnic State University”, American Society for Engineering Education-Pacific Southwest (ASEE/PSW) Conference at National University in San Diego, CA, March 19-20, 2009.
31. **X. Jin**, S. Trieu, Fei Wang, B. Zhang, T. Dai, X. N. Kang, and G. Y. Zhang, “Design Simulation of Top ITO Gratings to Improve Light Transmission for Gallium Nitride LEDs”, 2009 Sixth International Conference on Information Technology: New Generations, ITNG2009, Las Vegas, Nevada, USA, April 27-29, 2009.
32. Simeon Trieu, **Xiaomin Jin**, Bei Zhang, Tao Dai, Kui Bao, Xiang-Ning Kang and Guo-Yi Zhang, “Light Extraction Improvement of GaN-based Light-emitting Diodes using Patterned Undoped GaN Bottom Reflection Gratings”, the SPIE International Symposium on Integrated Optoelectronic Devices 2009, SPIE Photonic West 2009, San Jose, CA USA 24-29, January 2009.
33. **X. Jin**, B. Zhang, F. Wang, J. Flickinger, S. Jobe, T. Dai, G. Y. Zhang, “International engineering research and educational activity on GaN lasers and LEDs” International Association of Journals and Conferences (IAJC)-International Conference, International Journal of Modern Engineering (IJME) IAJC-IJME 2008, November 18-22, 2008, Nashville, Tennessee.
34. **X Jin**, Xian Wang, and Chi Yeh Hsu, “Design and Implementation of Mobile Free Space Optical Communication System”, the 2008 Avionics, Fiber-Optics and Photonics Conference, (AVFOP2008), Sept 30-2nd, 2008, San Diego, CA.
35. **X. Jin**, Xiao-Hua Yu, Saied Zargar, Roshan H. Patel, and Sam Ward, “A Pressure Sensing System using Fiber Optic Sensors and Artificial Neural Networks”, the 2008 Avionics, Fiber-Optics and Photonics Conference, (AVFOP2008), Sept 30-2nd, 2008, San Diego, CA.
36. **X. Jin**, S. Trieu, “Improvement of light transmission using photonic lattices for solar-cells,” Solar Energy: New Materials and Nanostructured Devices for High Efficiency, Stanford, California, June 2008.
37. F. Wang, W. P. Dunn, M. Jain, C. D. Leo, **X. Jin**, N. Vicker, R. Savage, S. Mamedov, and P. Boolchand, “Thermal Annealing Effects of Obliquely Evaporated Silver Doped Chalcogenide Glass Thin Films”, The 2008 Material Research Society (MRS) Spring Meeting, March 24 – 28 Moscone West and San Francisco Marriott, CA, USA.
38. X. Wang, C. Y. Hsu, and **X. Jin**, “Light-weight mobile free space optical communication system”, 1st place winner paper in “Engineering and computer science-undergraduate”, the 22nd annual California State University Student Research Competition, East Bay, May, 2008.
39. X. Wang, C. Y. Hsu, and **X. Jin**, “Mobile free space optical communication system”, SPIE Photonic West 2008, San Jose, CA 19 - 24 January 2008.
40. **X. Jin**, B. Y. Tarnng and S. L. Chuang “Relative intensity noise Sstudy in the injection-locked integrated electroabsorption modulator-lasers”, International Semiconductor Device Research Symposium (ISDRS 2007), College Park, MD. Dec, 2007.

41. J. Flickinger, **X. Jin**, E. Heller, and L. Chen, "Gallium Arsenide Photodiode Simulation", The 7th International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD 07), Delaware, United States, 24 - 27 September 2007.
42. X. Jin, B. Zhang, S. Jobe, J. DeLeon, J. Flickinger, T. Dai, G. Zhang, E. Heller, and L. Chen, "Two-dimension simulation of GaN-Based LD", The 7th International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD 07), Delaware, September 2007.
43. L. Chen and **X. Jin**, "Strong Guiding of Light in Hollow Nanowire Structures", The OSA Topical Conference on Nanophotonics (NANO 2007), 6/18/2007 - 6/21/2007, Hangzhou, China
44. **X. Jin**, B. Zhang, L. Chen, S. Jobe, T. Dai, and G. Zhang, "The Optimization of Gallium Nitride-Based Laser Diode through Transverse Modes Calculation" The OSA Topical Conference on Nanophotonics (NANO 2007), 6/18/2007 - 6/21/2007, Hangzhou, China.
45. Dennis Derickson, Sam Agbo, Sean Jobe, John Sharpe, Dan Wasche, and **Xiaomin Jin**, "Photonics Education Program at California Polytechnic State University", Education and Training in Optics and Photonics 2007 (ETOP 2007), Ottawa, Canada, June 2-3rd, 2007.
46. Kurt Burian and **Xiaomin Jin**, "Generic Device Control System for Remote Procedure Calls", 6th annual Wireless Telecommunications Symposium (WTS 2007), April, 26th-28th, Pomona, CA 91768, USA, 2007.
47. **X. Jin**, F. Wang, K. D. Lystad, and M. H. Sendaula, "Electromagnetic Crosstalk Penalty in 2.5GB/s and 10GB/S Serial optical modules", The 7th International Symposium on Antennas, Propagation, and EM Theory (ISAPE2006), Guilin, China, Oct 26-29th, 2006.
48. **X. Jin**, A. Hsu, and S. L. Chuang, "Study of Optical-feedback using an Integrated Laser-modulator/amplifier Device", 2006 Integrated photonics research and application topical meeting (IPRA 2006), Uncasville, CT, April 24-26th, 2006.
49. **X. Jin** and S. L. Chuang "Injection-Locking in Fabry-Perot Quantum-well Lasers", 2005 International Semiconductor Device Research Symposium (ISDRS 2005), Bethesda, MD. Dec 6-9th 2005.
50. **X. Jin**; K.D.Lystad, M.H Sendaula, "Electromagnetic crosstalk penalty in serial fiber optic modules," Microwave and Millimeter Wave Technology, 2004. ICMMT 4th International Conference on, Proceedings, 18-21 Aug. 2004, Page(s): 912- 915.
51. **X. Jin** and S. L. Chuang, "Relative intensity noise study of injection-locked semiconductor lasers using integrated electroabsorption modulator laser", the 2004 Avionics Fiber-optics and Photonics, LEOS, St. Louis, MO, April 2004.
52. R. D. Martin, M. N. Donhowe, T. A. Yost, X. Huang, **X. Jin**, S. P. Kilcoyne, and X. Zhang "High-speed VCSEL-based transceiver development at Gore Photonics" (Invited Talk), Photonics West [4994-25], San Jose, California 2003.
53. Hsu, E. Young, G. Liu, **X. Jin**, and S. L. Chuang, "Broken rail and buckled rail detection using fiber-optics," Workshop on Rail Defect Detection, Removal Policies, and Broken Rail Detection Technologies, Pueblo, CO, July 1997. (Invited talk)
54. **X. Jin**, B. Wu, and K. Zhang, "High speed Ti: LiNbO<sub>3</sub> modulator using thick electrode and thick SiO<sub>2</sub> buffer layer," International Laser, Lightwave and Microwave Conference (ILLMC 95), Shanghai, China, 1995.
55. J. Hu, **X. Jin**, B. Wu, W. Wang, and K. Zhang, "Analysis of traveling-wave modulator by FEM," International Laser, Lightwave and Microwave Conference (ILLMC 95), Shanghai, China, 1995.