

## JOURNAL PUBLICATIONS

104. Y.S. Lee, T.B. Norris, M. Kira, S.W. Koch, G. Khitrova, and H.M. Gibbs Coherent, "Control of Incoherent Secondary Emission from Semiconductor Microcavities via Quantum-Optical Correlations," submitted to Phys. Rev. Lett.
103. T. Buma and T.B. Norris, "Time reversal 3-D imaging using single-cycle terahertz pulses," submitted to Appl. Phys. Lett.
102. M. Kira, W. Hoyer, S.W. Koch, Y.S. Lee, T.B. Norris, G. Khitrova, and H.M. Gibbs, "Incoherent Pulse Generation in Semiconductor Microcavities," submitted to Physica B.
101. Thommey P. Thomas, Mon Thiri Myaing, Jing Yong Ye, Kim Candido, Alina Kotlyar, James Beals, Peter Cao, Balazs Keszler, Anil Patri, Theodore B. Norris, and James R. Baker Jr., "Detection and Analysis of Tumor Fluorescence Using a Two-Photon Optical Fiber Probe," submitted to Biophys. J.
100. M.T. Myaing, J.Y. Ye, T.B. Norris, T. Thomas, J. Baker, Jr., W.J. Wadsworth, G. Bouwmans, J.C. Knight, and P.St.J. Russell, "Enhanced Two-photon Biosensing With Double-clad Photonic Crystal Fibers," Opt. Lett. **28**, 1224 (2003).
99. T. Thomas, J. Baker Jr., J.Y. Ye, M.T. Myaing, and T.B. Norris, "Optical Fiber Detection of Dendrimer Based Nanoparticles in Cancer Analysis," (invited article), OE Magazine, February 2003.
98. K. Kim, T.B. Norris, J. Singh, and P. Bhattacharya, "Level Degeneracy and Temperature-Dependent Carrier Distributions in Self-Organized Quantum Dots," Appl. Phys. Lett. **82**, 1959 (2003).
97. P. Bhattacharya, S. Ghosh, S. Pradhan, J. Singh, Z-K. Wu, J. Urayama, K. Kim, and T. Norris, "Carrier Dynamics and High-Speed Modulation Properties of Tunnel Injection InGaAs/GaAs Quantum Dot Lasers" IEEE J. Quant. Electron. **39**, 952 (2003).
96. G. Chang, H. Winful, and T.B. Norris, "Optimizing Pulse Compression using Photonic Crystal Fibers," Opt. Lett. **28**, 546 (2003).
95. S. Milas, J.Y. Ye, T.B. Norris, L. Balogh, J. Baker, Jr., K. Hollman, S. Emilianov, and M. O'Donnell, "Acoustic Characterization of Microbubble Generation in Laser-Induced Optical Breakdown" to be published in J. Acoust. Soc. Am.
94. S. Milas, J.Y. Ye, T.B. Norris, L. Balogh, J. Baker, Jr., K. Hollman, S. Emilianov, and M. O'Donnell, "Acoustic Characterization of Enhanced Laser-Induced Optical Breakdown using Metal/Dendrimer Nanocomposites," Appl. Phys. Lett. **82**, 994 (2003).
93. N.C.R. Holme, M.T. Myaing, and T.B. Norris, "Gouy Phase Shift of Single-Cycle Picosecond Acoustic Pulses," Appl. Phys. Lett. **83**, 392 (2003).
92. N.C.R. Holme, M.T. Myaing, and T.B. Norris, "Gouy Phase Shift of Single-Cycle Picosecond Acoustic Pulses," in Ultrafast Phenomena XII, Proceedings of the Thirteenth International Conference, Vancouver, 2002, ed. By R.D. Miller, M.M. Murnane, N.F. Scherer, and A.M. Weiner, Springer Series in Chemical Physics vol. 71, (Springer-Verlag, Berlin, 2002), p. 672.
91. Y.S. Lee and T.B. Norris, "Terahertz Pulse Shaping and Optimal Waveform Generation in Poled Ferroelectric Crystals," J. Opt. Soc. Am B. **19**, 2791 (2002).
90. K. Kim, J. Urayama, T.B. Norris, J. Singh, J. Phillips, and P. Bhattacharya, "Gain Dynamics and Ultrafast Spectral Hole-Burning in In(Ga)As Self-Organized Quantum Dots," Appl. Phys. Lett. **81**, 670 (2002).
89. J.Y. Ye, T. Thomas, M.T. Myaing, J. Baker, Jr., and T.B. Norris, "Biosensing Based on Two-Photon Fluorescence Measurements Through Optical Fibers," Opt. Lett. **27**, 1412 (2002).
88. Y.-S. Lee, T.B. Norris, F. Jahnke, C. Sieh, T. Meier, S.W. Koch, G. Khitrova, and H.M. Gibbs, "Coherent Optical Nonlinearities in Normal-Mode Microcavities," submitted to Phys. Rev. B.
87. A.B. Ruffin, J. Decker, L. Sanchez-Palencia, L. Le Hors, V. Rudd J.F. Whitaker, and T.B. Norris, "Time Reversal THz Imaging," IEEE J. Quant. Electron. **38**, 1110 (2002).

86. J. Urayama, T.B. Norris, J. Singh, and P. Bhattacharya, "Temperature Dependence of Carrier Dynamics in Self-Organized Quantum Dots," Appl. Phys. Lett. **80**, 2162 (2002).
85. J.Y. Ye, L. Balogh, and T.B. Norris, "Enhancement of Laser-Induced Optical Breakdown Using Metal/Dendrimer Nanocomposites," Appl. Phys. Lett. **80**, 1713 (2002).
84. J. Urayama, T. B. Norris, H. Jiang, J. Singh, and P. Bhattacharya, "Differential Transmission Measurement of Phonon Bottleneck in Self-Assembled Quantum Dot Intersubband Relaxation," Physica B **316-317**, 74 (2002).
83. L. Sherman, J.Y. Ye, and T.B. Norris, "Adaptive Correction of Depth Induced Aberrations in Multiphoton Confocal Microscopy Using a Deformable Mirror," J. Microscopy **206**, 65 (2002).
82. Y.S. Lee, T. Meade, and T.B. Norris, "Tunable Narrowband Terahertz Generation from Periodically Poled Lithium Niobate," Optics and Photonics News **12**, 46 (2001).
81. S. Krishna, P. Bhattacharya, J. Singh, T. Norris, J. Urayama, P.J. McCann, and K. Namjou, "Intersubband Gain and Stimulated Emission in Long Wavelength ( $\lambda=13\mu\text{m}$ ) Intersubband In(ga)As/GaAs Quantum Dot Electroluminescent Devices," IEEE J. Quant. Electron. **37**, 1066 (2001).
80. Y.-S. Lee, T. Meade, T.B. Norris, and A. Galvanauskas, "Tunable Narrow-Band Terahertz Generation from Periodically-Poled Lithium Niobate," Appl. Phys. Lett. **78**, 3583 (2001).
79. Y.S. Lee, T.B. Norris, A. Maslov, D.S. Citrin, J. Prineas, G. Khitrova, and H.M. Gibbs, "Large-Signal Coherent Control of Normal Modes in Quantum-Well Semiconductor Microcavity," Appl. Phys. Lett. **78**, 3941 (2001).
78. A.B. Ruffin, J. Decker, L. Sanchez-Palencia, L. Le Hors, J.F. Whitaker, T.B. Norris, and V. Rudd, "Time Reversal and Object Reconstruction Based on Single Cycle Pulses," Opt. Lett. **26**, 681 (2001).
77. J. Urayama, T.B. Norris, J. Singh, and P. Bhattacharya, "Observation of Phonon Bottleneck in Quantum Dot Electronic Relaxation," Phys. Rev. Lett. **86**, 4930 (2001).
76. Y.-S. Lee, T. Meade, M. Naudeau, T.B. Norris, and A. Galvanauskas, "Domain Mapping of Periodically-Poled Lithium Niobate via Terahertz Waveform Analysis," Appl. Phys. Lett. **77**, 2488 (2000).
75. M.T. Myaing, J. Urayama, A. Braun, and T.B. Norris, "Nonlinear Propagation of Negatively Chirped Pulses: Maximizing the Peak Intensity at the Output of a Fiber Probe," Optics Express **7**, 210 (2000).
74. Y.-S. Lee, T.B. Norris, A.V. Maslov, and D.S. Citrin, "Coherent Control and Nonlinear Interactions of Semiconductor Cavity Polaritons," in Ultrafast Phenomena XII, Proceedings of the Twelfth International Conference, Charleston, 2000, ed. By T. Elsaesser, S. Mukamel, M.M. Murnane, and N.F. Scherer, Springer Series in Chemical Physics vol. 66, (Springer-Verlag, Berlin, 2000), p. 39.
73. T. Meade, Y.-S. Lee, V. Perlin, H. Winful, T.B. Norris, and A. Galvanauskas, "Generation of Narrow-Band Terahertz Pulses by Optical Rectification in Periodically-Poled Lithium Niobate," in Ultrafast Phenomena XII, Proceedings of the Twelfth International Conference, Charleston, 2000, ed. By T. Elsaesser, S. Mukamel, M.M. Murnane, and N.F. Scherer, Springer Series in Chemical Physics vol. 66, (Springer-Verlag, Berlin, 2000), p. 206.
72. Y.-S. Lee, T. Meade, M. DeCamp, T.B. Norris, and A. Galvanauskas, "Temperature Dependence of Narrow-Band Terahertz Generation from Periodically-Poled Lithium Niobate," Appl. Phys. Lett. **77**, 1244 (2000).
71. Y.-S. Lee, T.B. Norris, M. Kira, F. Jahnke, S.W. Koch, G. Khitrova, and H.M. Gibbs, "Nondegenerate Coherent Control of Polariton Modes in a Quantum Well Semiconductor Microcavity," Phys. Stat. Solidi. (b) **221**, 121-125 (2000).
70. Y.-S. Lee, T.B. Norris, M. Kira, F. Jahnke, S.W. Koch, G. Khitrova, and H.M. Gibbs, "Intraband Quantum Correlations in Semiconductor Quantum Well Microcavity," Phys. Stat. Solidi.(a) **178**, 391 (2000).

69. Y.-S. Lee, T. Meade, V. Perlin, H. Winful, T.B. Norris, and A. Galvanauskas, "Generation of Narrow-Band Terahertz Radiation via Optical Rectification in Periodically-Poled Lithium Niobate," Appl. Phys. Lett. **76**, 2505 (2000).
68. J. Urayama, T.B. Norris, B. Kochman, J. Singh, and P. Bhattacharya, "Evidence of Interdot Electronic Tunneling in Vertically Coupled In<sub>0.4</sub>Ga<sub>0.6</sub>As Self-Organized Quantum Dots," Appl. Phys. Lett. **76**, 2394 (2000).
67. O. Albert, L. Sherman, G. Mourou, T.B. Norris, and G. Vdovin, "The Smart Microscope: Learning System for Aberration Correction in Multiphoton Confocal Microscopy," Opt. Lett. **25**, 52 (2000).
66. Y.-S. Lee, T.B. Norris, M. Kira, F. Jahnke, S.W. Koch, G. Khitrova, and H.M. Gibbs, "Quantum Correlations and Intraband Coherences in Semiconductor Cavity QED," Phys. Rev. Lett. **83**, 5338 (1999).
65. P. Bhattacharya, K. Kamath, J. Singh, D. Klotz, J. Phillips, H.-T. Jiang, N. Chervela, T. Norris, and T. Sosnowski, "In(Ga)As/GaAs Self-Organized Quantum Dot Lasers: DC and Small-Signal Modulation Properties," IEEE Trans. Electron Devices **46**, 871 (1999). [This paper received the Paul Rappaport Award for best paper in an IEEE Electron Devices Society publication, 1999.]
64. N.C.R. Holme, L.Nikolova, T.B.Norris, S.Hvilsted, M.Pedersen, R.H.Berg, P.H.Rasmussen and P.S. Ramanujam, "Physical Process in Azobenzene Polymers on Irradiation with Polarized Light", Macromol. Symp. **137**, 83-103 (1999)
63. A.H. Buist, G.J. Brakenhoff, M. Muller, T.B. Norris, J. Squier, C.J. Bardeen, V.V. Yakovlev, and K.R. Wilson, "Ultrafast lasers and biological applications: from 2-photon to molecular relaxation imaging," in Commercial Applications of Ultrafast Lasers, ed. By M.K. Reed, Proceedings of SPIE-The International Society for Optical Engineering, **3269**, 94 (1998).
62. A. Braun, T. Sosnowski, S. Kane, P. van Rompay, T. Norris, and G. Mourou, "Tunable third-order phase compensation by refraction from an intra-grating-pair parallel plate," IEEE J. Sel. Topics Quant. Electron. **4**, 426 (1998).
61. T. Sosnowski, J. Urayama, T.B. Norris, H. Jiang, J. Singh, K. Kamath, J. Phillips, and P. Bhattacharya, "Ultrafast Carrier Capture and Relaxation in InGaAs and InAs Self-Organized Quantum Dots," Trends in Optics and Photonics Vol. 18, Radiative Processes and Dephasing in Semiconductors, D.S. Citrin, ed., (Optical Society of America, 1998), p.30.
60. R.K. Lai, J.-R. Hwang, T.B. Norris, and J.F. Whitaker, "A Photoconductive Miniature Terahertz Source," Appl. Phys. Lett. **72**, 3100 (1998).
59. T.S. Sosnowski, T.B. Norris, H. Jiang, J. Singh, K. Kamath, and P. Bhattacharya, "Ultrafast Carrier Capture and Relaxation in InGaAs Self-Organized Quantum Dots," Optics and Photonics News **9**, 47 (1998).
58. S. Smith, N.C.R. Holme, B.G. Orr, R. Kopelman, and T.B. Norris, "Near-Field Microscopy combined with Time-Resolved Spectroscopy: Probing Dynamics on a Submicron Length Scale," to be published in Journal of Scanning Microscopy.
57. T.S. Sosnowski, T.B. Norris, H. Jiang, J. Singh, K. Kamath, and P. Bhattacharya, "Rapid Carrier Relaxation in In<sub>0.4</sub>Ga<sub>0.6</sub>As/GaAs Quantum Dots Characterized by Differential Transmission Spectroscopy," Phys. Rev. B Rapid Communications **57**, R9423 (1998).
56. S. Smith, N.C.R. Holme, R. Kopelman, B. Orr, and T. Norris, "Ultrafast Measurements in GaAs Thin Films using NSOM," Ultramicroscopy **71**, 213 (1998).
55. K. Kamath, N. Chervela, K.K. Linder, T. Sosnowski, H.-T. Jiang, T. Norris, J. Singh, and P. Bhattacharya, "Photoluminescence and Time-Resolved Photoluminescence Characteristics of InGaAs/GaAs Self-Organized Single- and Multiple-Layer Quantum Dot Laser Structures," Appl. Phys. Lett. **70**, 3245 (1997).
54. T.S. Sosnowski, T.B. Norris, H.H. Wang, P. Grenier, J.F. Whitaker, and C.Y. Sung, "High-Carrier-Density Electron Dynamics in Low-Temperature-Grown GaAs," Appl. Phys. Lett. **70**, 3245 (1997).
53. R.I. Ghauharali, M. Muller, A.H. Buist, T.S. Sosnowski, T.B. Norris, J. Squier, and G.J. Brakenhoff, "Optical Saturation Measurements of Fluorophores in Solution using

- Femtosecond Excitation and Two-Dimensional CCD Camera Detection," Applied Optics **36**, 4320 (1997).
52. A.H. Buist, M. Muller, E.J. Gijbbers, G.J. Brakenhoff, T.S. Sosnowski, T.B. Norris, and J. Squier, "Double Pulse Fluorescence Lifetime Measurements," J. Microscopy **186**, 212 (1997).
  51. A. Braun, S. Kane, and T.B. Norris, "Compensation of Self-Phase Modulation in Chirped-Pulse Amplification Laser Systems," Opt. Lett. **22**, 615 (1997).
  50. D.S. Citrin and T.B. Norris, "Coherent Control of Quantum-Well Excitons in a Resonant Semiconductor Microcavity for High-Speed All-Optical Switching," IEEE J. Selected Topics in Quant. Electron **2**, 401 (1997).
  49. D.S. Citrin and T.B. Norris, "Constraints on Coherent Control of Quantum-Well Excitons for High-Speed All-Optical Switching," IEEE J. Quant. Electron **33**, 404 (1997).
  48. A. Hariharan, D.J. Harter, S. Kane, D. Du, T. Sosnowski, T.B. Norris, and J. Squier, "Injection of Ultrafast Regenerative Amplifiers with Low Energy Femtosecond Pulses from an Er-Doped Fiber Laser," Opt. Communications **132**, 469 (1996).
  47. J.-R. Hwang, R.K. Lai, J. Nees, T. Norris, and J.F. Whitaker, "A Field-Sensitive Photoconductive Probe for Sampling through Passivation Layers," Appl. Phys. Lett. **69**, 2211 (1996).
  46. K. Kamath, P. Bhattacharya, T. Sosnowski, T. Norris, and J. Phillips, "Room Temperature Operation of In<sub>0.4</sub>Ga<sub>0.6</sub>As/GaAs Self-Organized Quantum Dot Lasers," Electronics Letters **32**, 1374 (1996).
  45. R.K. Lai, J.-R. Hwang, J. Nees, T.B. Norris, and J.F. Whitaker, "A Fiber-Mounted, Micromachined Photoconductive Probe with 15 nV/Hz<sup>1/2</sup> Sensitivity," Appl. Phys. Lett **69**, 1843 (1996).
  44. J.-K. Rhee, T.S. Sosnowski, A.-C. Tien, and T.B. Norris, "Real-Time Dispersion Analyzer of Femtosecond Laser Pulses Using a Spectrally and Temporally Resolved Upconversion Technique," J. Opt. Soc. Am. B **13**, 1780 (1996).
  43. T.B. Norris, J.K. Rhee, R. Lai, D.S. Citrin, M. Nishioka, and Y. Arakawa, "Ultrafast Spectroscopy of Carriers and Excitons in Semiconductor Microcavities," Frontiers in Laser Physics and Spectroscopy, Prog. Crystal Growth Charact. **33**, 155 (1996).
  42. E. Hanamura and T.B. Norris, "Weak Localization of Exciton Polaritons in a Quantum Well," Phys. Rev. B **54**, R2292 (1996).
  41. J.-K. Rhee, T.B. Norris, D.S. Citrin, Y. Arakawa, M. Nishioka, and E. Hanamura, "Coherence Transfer in Exciton-Exciton Scattering in a Semiconductor Microcavity," in Ultrafast Phenomena X, Proceedings of the Tenth International Conference, Del Coronado, CA, 1996, ed. by P.F. Barbara, J.G. Fujimoto, W.H. Knox, and W. Zinth, Springer Series in Chemical Physics vol. 62, (Springer-Verlag, Berlin, 1996), p. 423.
  40. A. Braun, S. Kane, and T.B. Norris, "Compensation of SPM-Induced Pulse Distortions in Chirped-Pulse Amplification Systems," in Ultrafast Phenomena X, Proceedings of the Tenth International Conference, Del Coronado, CA, 1996, ed. by P.F. Barbara, J.G. Fujimoto, W.H. Knox, and W. Zinth, Springer Series in Chemical Physics vol. 62, (Springer-Verlag, Berlin, 1996), p. 90.
  39. S. Smith, N.C.R. Holme, M. Kwok, B.G. Orr, R. Kopelman, and T.B. Norris, "Ultrafast Equal Pulse Correlation Measurements in GaAs Structures with a Near-Field Microscope," in Ultrafast Phenomena X, Proceedings of the Tenth International Conference, Del Coronado, CA, 1996, ed. by P.F. Barbara, J.G. Fujimoto, W.H. Knox, and W. Zinth, Springer Series in Chemical Physics vol. 62, (Springer-Verlag, Berlin, 1996), p. 141.
  38. X. Zhang, C.Y. Sung, T.B. Norris, and G.I. Haddad, "Population Inversion in Asymmetrical Step Quantum Wells and Infrared Subband Lasers," in Quantum Well and Superlattice Physics VI, G.H. Dohler and T.S. Moise, editors, Proc. SPIE 2694, 19 (1996).
  37. J.-K. Rhee, D.S. Citrin, T.B. Norris, Y. Arakawa, and M. Nishioka, "Femtosecond Dynamics of Semiconductor-Microcavity Polaritons in the Nonlinear Regime," Solid State Commun. **97**, 941 (1996).

36. C.Y. Sung, T.B. Norris, A. Afzali-Kushaa, and G.I. Haddad, "Femtosecond Intersubband Relaxation and Population Inversion in a Stepped Quantum Well," Appl. Phys. Lett. **68**, 435 (1996).
35. T.S. Sosnowski, P.B. Stephens, and T.B. Norris, "A New Technique in Optical Parametric Amplification for the Production of 30-fs Pulses Tunable throughout the Visible Spectral Region," Opt. Lett. **21**, 140 (1996).
34. G.J. Brakenhoff, J. Squier, T.B. Norris, C. Bliton, and B. Athey, "Real-Time Two-Photon Confocal Microscopy Using a Femtosecond Amplified Ti:sapphire System," J. Opt. Microscopy **181**, 253 (1996).
33. T.B. Norris, J.K. Rhee, D.S. Citrin, M. Nishioka, and Y. Arakawa, "Coherent and Incoherent Dynamics of Excitons in Semiconductor Microcavities," Il Nuovo Cimento **17D**, 1295 (1995).
32. J.F. Whitaker, H.H. Wang, C.Y. Sung, T. Sosnowski, T.B. Norris, H. Fujioka, and Z. Liliental-Weber, "Ultrafast Carrier Response of Low-Temperature-Grown and Arsenic-Implanted GaAs," Lithuanian Journal of Physics **35**, 594 (1995).
31. L.-M. Yang, T. Sosnowski, M.L. Stock, T.B. Norris, J. Squier, G. Mourou, M.L. Dennis, and I.N. Duling III, "Chirped Pulse Amplification of Ultrashort Pulses using a Multimode Tm:ZBLAN Fiber Upconversion Laser," Opt. Lett. **20**, 1044 (1995).
30. S.H. Kwok, T.B. Norris, L.L. Bonilla, J. Galan, J.A. Cuesta, F.C. Martinez, J.M. Molera, H.T. Grahn, K. Ploog, and R. Merlin, "Domain Wall Kinetics and Tunneling-Induced Instabilities in Superlattices," Phys. Rev. B **51**, 10171 (1995).
29. L.-M. Yang, T. Sosnowski, M.L. Stock, T.B. Norris, J. Squier, G. Mourou, M.L. Dennis, and I.N. Duling III, "Upconversion Chirped Pulse Amplification of Ultrashort Pulses using a Multimode Tm:ZBLAN Fiber Laser," in Generation, Amplification, and Measurement of Ultrashort Laser Pulses II, ed. by F.W. Wise and C.P.J. Barty, SPIE vol 2377, p.148 (1995).
28. S. Smith, B.G. Orr, R. Kopelman, and T.B. Norris, "100-Femtosecond / 100-Nanometer Near-Field Probe," Ultramicroscopy **57**, 173 (1995).
27. A. Afzali-Kushaa, G.I. Haddad, and T.B. Norris, "Optically Pumped Intersubband Lasers Based on Quantum Wells," IEEE J. Quant. Electron. **31**, 135 (1995).
26. J.-K. Rhee, T.S. Sosnowski, T.B. Norris, J.A. Arns, and W.S. Colburn, "Chirped Pulse Amplification of 85-Femtosecond Pulses at 250 kHz with Third-Order-Dispersion Compensation using Holographic Transmission Gratings," Opt. Lett. **19**, 1550 (1994)
25. J. Son, T.B. Norris, and J.F. Whitaker, "Terahertz Electromagnetic Pulses as Probes for Transient Velocity Overshoot in GaAs and Si," J. Opt. Soc. Am. B **11**, 2519 (1994), Special Issue on THz Pulses and Applications.
24. T.B. Norris, J.-K. Rhee, C.Y. Sung, Y. Arakawa, M. Nishioka, and C. Weisbuch, "Time-Resolved Vacuum Rabi Oscillations in a Semiconductor Quantum Microcavity," Phys. Rev. B **40**, 14663 (1994).
23. J. Squier, T.B. Norris, C. Bliton, G.J. Brakenhoff, and B. Athey, "Real-Time 2-Photon Confocal Microscopy Using a Femtosecond Amplified Ti:sapphire System," in Ultrafast Phenomena IX, Proceedings of the Ninth International Conference, Dana Point, CA, 1994, ed. by P.F. Barbara, W.H. Knox, G.A. Mourou, and A.H. Zewail, Springer Series in Chemical Physics vol. 60, (Springer-Verlag, Berlin, 1994), p. 136.
22. J.-K. Rhee, T.B. Norris, Y. Arakawa, M. Nishioka, and C. Weisbuch, "Dynamics of Coherently Excited Semiconductor Microcavities," in Ultrafast Phenomena IX, Proceedings of the Ninth International Conference, Dana Point, CA, 1994, ed. by P.F. Barbara, W.H. Knox, G.A. Mourou, and A.H. Zewail, Springer Series in Chemical Physics vol. 60, (Springer-Verlag, Berlin, 1994), p. 342.
21. T. Sosnowski, P.B. Klein, T.B. Norris, R.N. Bhargava, and D. Gallagher, "Femtosecond Blue Continuum Generation and Application to the Study of Dynamics of Doped ZnS Nanocrystals," in Ultrafast Phenomena IX, Proceedings of the Ninth International Conference, Dana Point, CA, 1994, ed. by P.F. Barbara, W.H. Knox, G.A. Mourou, and

- A.H. Zewail, Springer Series in Chemical Physics vol. 60, (Springer-Verlag, Berlin, 1994), p. 389.
20. J. Son, W. Sha, J. Kim, T.B. Norris, J.F. Whitaker, and G.A. Mourou, "Transient Velocity Overshoot Dynamics in GaAs for Electric Fields  $\leq 200$  kV/cm," Appl. Phys. Lett. **63**, 923 (1993).
  19. W. Sha, T.B. Norris, J.W. Burm, D. Woodard, and W.J. Schaff, "A New Coherent Detector for Terahertz Radiation Based on Excitonic Electroabsorption," Appl. Phys. Lett. **61**, 1763 (1992).
  18. W. Sha, J. Rhee, T.B. Norris, and W.J. Schaff, "Transient Carrier and Field Dynamics in Quantum Well Parallel Transport: from the Ballistic to the Quasi-equilibrium Regime," IEEE J. Quant. Electron. **28**, (special issue on Ultrafast Optics and Electronics), 2445 (1992).
  17. T.B. Norris, "Femtosecond Pulse Amplification at 250 kHz with a Ti:sapphire Regenerative Amplifier, and Application to Continuum Generation," Opt. Lett. **17**, 1009 (1992).
  16. T.B. Norris, "Femtosecond Pulse Amplification and Continuum Generation at 250 kHz with a Ti:sapphire Regenerative Amplifier," in Ultrafast Phenomena VIII, Proceedings of the Eighth International Conference, Antibes Juan-Les-Pins, France, 1992, ed. by J.-L. Martin, A. Migus, G.A. Mourou, and A.H. Zewail, Springer Series in Chemical Physics vol. 55, (Springer-Verlag, Berlin, 1993), p. 200.
  15. W. Sha, J. Rhee, and T.B. Norris, "Transient Electron Transport in GaAs Quantum Wells: from the Ballistic to the Quasi-equilibrium Regime," in Ultrafast Phenomena VIII, Proceedings of the Eighth International Conference, Antibes Juan-Les-Pins, France, 1992, ed. by J.-L. Martin, A. Migus, G.A. Mourou, and A.H. Zewail, Springer Series in Chemical Physics vol. 55, (Springer-Verlag, Berlin, 1993), p. 493.
  14. W. Sha, T.B. Norris, W.J. Schaff, and K.E. Meyer, "Time-Resolved Ballistic Acceleration of Electrons in a GaAs Quantum-Well Structure," Phys. Rev. Lett. **67**, 2553 (1991).
  13. W.J. Schaff, S.D. Offsey, X.J. Song, L.F. Eastman, T.B. Norris, W.J. Sha, and G.A. Mourou, "Effect of Growth Conditions on Optical Response of GaAs Grown at Low Substrate Temperature by MBE," in Low Temperature (LT) GaAs and Related Materials, ed. by G.L. Witt, R. Calawa, U. Mishra, and E. Weber, (Materials Research Society, Pittsburgh, 1992), proceedings of the 1991 Fall Meeting of the Materials Research Society symposium, Boston, 1991.
  12. T.B. Norris, N. Vodjdani, B. Vinter, E. Costard, and E. Bockenhoff, "Resonant Tunneling between Heavy Hole and Light Hole States in Coupled Quantum Wells," Phys. Rev. B **43**, 1867 (1991).
  11. G. Vaillancourt, T.B. Norris, J.S. Coe, P. Bado, and G.A. Mourou, "Operation of a 1-kHz Pulse-Pumped Ti:sapphire Regenerative Amplifier," Optics Lett. **15**, 317 (1990).
  10. T.B. Norris, G.A. Mourou, X.J. Song, L.F. Eastman, N. Vodjdani, B. Vinter, and C. Weisbuch, "Time-Resolved Photoluminescence Spectroscopy of GaAs Quantum Well Tunneling Structures," Surf. Sci. **228**, 393 (1990), proceedings of the Fourth International Conference on Modulated Semiconductor Structures, Ann Arbor, Michigan, 1989.
  9. T.B. Norris, N. Vodjdani, B. Vinter, C. Weisbuch, and G.A. Mourou, "Charge-Transfer State Photoluminescence in Asymmetric Coupled Quantum Wells," Phys. Rev. B **40**, 1392-1395. (1989).
  8. T. B. Norris, X. J. Song, W. J. Schaff, L. F. Eastman, G. Wicks, and G. A. Mourou, "Tunneling Escape Time of Electrons from a Quantum Well Under the Influence of an Electric Field," Appl. Phys. Lett. **54**, 60-62 (1989).
  7. J.F. Whitaker, T.B. Norris, G.A. Mourou, T.C.L.G. Sollner, W.D. Goodhue, X.J. Song, and L.F. Eastman, "Tunneling-Time Measurements of a Resonant Tunneling Diode," in Ultrafast Phenomena VI, Proceedings of the Sixth Optical Society of America Topical Meeting, Kyoto, Japan, 1988, ed. by T. Yajima, K. Yoshihara, C. B. Harris, and S. Shionoya, Springer Series in Chemical Physics vol. 48, (Springer-Verlag, Berlin, 1988), p. 185.
  6. H.E. Elsayed-Ali, T.B. Norris, M.A. Pessot, and G.A. Mourou, "Time-Resolved Observation of Electron-Phonon Relaxation in Copper," Phys. Rev. Lett. **58**, 1212 (1987).

5. J.F. Whitaker, T.B. Norris, G. Mourou, and T.Y. Hsiang, "Pulse Dispersion and Shaping in Microstrip Lines," IEEE Trans. Microwave Theory Tech. MTT-35, 41 (1987).
4. H. Elsayed-Ali, M. Pessot, T. Norris, and G. Mourou, "Time-Resolved Observation of Electron-Phonon Relaxation During Femtosecond Laser Heating of Copper," in Ultrafast Phenomena V, Proceedings of the Fifth Optical Society of America Topical Meeting, Snowmass, CO, 1986, ed. by G.R. Fleming and A.E. Siegman, Springer Series in Chemical Physics, Vol. 46 (Springer-Verlag, New York, 1986), p.264.
3. T. Norris, T. Sizer II, and G. Mourou, "Generation of 85-fsec Pulses by Synchronous Pumping of a Colliding-Pulse Mode-Locked Dye Laser," J. Opt. Soc. Am. B2, 613 (1985).
2. I.N. Duling III, T. Norris, T. Sizer II, P. Bado, and G.A. Mourou, "Kilohertz Synchronous Amplification of 85-fsec Optical Pulses," J. Opt. Soc. Am. B2, 616 (1985).
1. P. Bado, I.N. Duling III, T. Sizer II, T.B. Norris, and G.A. Mourou, "Generation of White Light at 1 kHz," in Proceedings of SPIE, Ultrashort Pulse Spectroscopy and Applications, Vol. 533, ed. by M.J. Soileau, p. 59 (1985).

## BOOK CHAPTERS

- T. Meier, C. Sieh, S.W. Koch, Y.-S. Lee, T.B. Norris, F. Jahnke, G. Khitrova, and H.M. Gibbs, "Nonlinear Optical Properties of Semiconductor Quantum Wells Inside Microcavities," pp. 1-84, to be published in Optical Microcavities, ed. by K. Vahala (World Scientific, 2004).
- T.B. Norris, "Excitons in Strongly Coupled Microcavities," in Semiconductor Quantum Optoelectronics: From Quantum Physics to Smart Devices, ed. by A. Miller and D. Finlayson (Institute of Physics, 1999), pp.121-150.
- X. Zhang, A. Afzali-Kushaa, C.Y. Sung, J.P. Sun, T.B. Norris, and G.I. Haddad, "Far-Infrared Lasers Based on Intersubband Transitions," in Long-Wavelength Infrared Emitters Based on Quantum Wells and Superlattices, ed. by Manfred Helm, (Gordon & Breach, 2000; vol.6 in the series "Optoelectronic Properties of Semiconductors and Superlattices," series ed. M.O. Manasreh), p. 135.
- T.B. Norris, "Carrier Dynamics in Quantum Wells," in Properties of III-V Superlattices and Quantum Wells, ed. by P.K. Bhattacharya (INSPEC, IEE, London, UK, 1996), chapter 5.2.
- T.B. Norris, "Strong Coupling in Semiconductor Microcavities," in Confined Electrons and Photons, New Physics and Applications, ed. by C. Weisbuch and E. Burstein, proceedings of the 1993 NATO Advanced Study Institute, Erice, Sicily, (Plenum, NY, 1995).

## INVITED CONFERENCE PRESENTATIONS

27. T.B. Norris, Y.S. Lee, M. Kira, W. Hoyer, S.W. Koch, G. Khitrova, and H.M. Gibbs, "Carrier-Photon Entanglement in Semiconductor Microcavities," to be presented at ILS, Tuscon, 2003.
26. T.B. Norris, "Dynamics of Spectral Hole Burning in Self-Organized Quantum Dot Amplifiers," invited talk presented at the OSA Topical Meeting on Nonlinear Optics, Hawaii, 2002.
25. P. Bhattacharya, T. Norris, and J. Singh, "Carrier Dynamics in In(Ga)As/Ga(Al)As Self-Organized Quantum Dots," invited paper presented at Photonics West 2002.
24. J. Urayama, T. B. Norris, H. Jiang, J. Singh, and P. Bhattacharya, "Differential Transmission Measurement of Phonon Bottleneck in Self-Assembled Quantum Dot Intersubband Relaxation," Phonon 2001: Tenth International Conference on Phonon Scattering in Condensed Matter, Hanover, NH, 2001.
23. Y.-S. Lee, T. Meade, T.B. Norris, and A. Galvanauskas, "Tunable Narrow-Band Terahertz Generation from Periodically Poled Lithium Niobate," invited paper QMM1, presented at CLEO, Baltimore, 2001.
22. A. B. Ruffin, J. Whitaker, T.B. Norris, J. Decker, L. Sanchez-Palencia, L. Le Hors, and J. Van Rudd, "Time Reversal and Two-Dimensional Object Reconstruction Using Single-Cycle

Terahertz Pulses," invited paper presented at the LEOS Annual Meeting, Puerto Rico, 2000.

21. T.B. Norris, "Adaptive Optics for Multiphoton Confocal Microscopy," invited paper WP1, presented at the OSA Annual Meeting, Providence, October 2000.
20. S. Krishna, P. Bhattacharya, J. Urayama, T. Norris, and P.J. McCann, "Carrier Dynamics in Self-Organized InGaAs/GaAs Quantum Dots," invited paper presented at the IEEE/LEOS Workshop on Semiconductor Lasers, San Francisco, May 2000.
19. Y.-S. Lee, T.B. Norris, M. Kira, F. Jahnke, S.W. Koch, A. Maslov, D.S. Citrin, J. Prineas, G. Khitrova, and H.M. Gibbs, "Coherent Control and Quantum Correlations in Semiconductor Microcavities," invited paper presented at the SPIE Photonics West'00 International Symposium on Ultrafast Phenomena in Semiconductors IV, San Jose, January 2000.
18. T.B. Norris, "Coherent Control of Strongly Coupled Semiconductor Microcavities," invited paper TuB5, ILS-99 (International Laser Science Conference), Santa Clara, September 1999.
17. T.B. Norris, "UltrashortPulses for Multiphoton Confocal Micoscopy," invited talk at the Symposium on Biomedical Imaging: Beyond Diagnostics, Ann Arbor, September 1999.
16. T.B. Norris, "Coherent Control and Quantum Correlations in Semiconductor Microcavities," invited paper presented at the 2<sup>nd</sup> NSF-CNRS Rendez-vous on Ultrafast Science and Technology, Paris, July 1999.
15. T.B. Norris, "Coherent Control of Excitons in Semiconductor Microcavities," invited paper QTuD2, OSA Topical Meeting on Quantum Optoelectronics, Snowmass, April 1999.
14. T.B. Norris, "Excitons in Semiconductor Microcavities," 3 invited lectures presented at the 50th Scottish Universities Summer School in Physics "Semiconductor Quantum Optoelectronics: From Quantum Phycis to Smart Devices," University of St. Andrews, Scotland, June 1998.
13. T.B. Norris, "Coherent Control of Normal Modes in Strongly Coupled Microcavities," invited paper presented at the International Workshop on Coherent Control of Carrier Dynamics in Semiconductors," University of Illinois at Chicago, May 1998.
12. T. Norris, "An Ultrafast Near-field Optical Probe for Studies of Semiconductor Nanostructures," invited paper presented at the 25th Annual Spring Symposium, Michigan Chapter of the American Vacuum Society, Ann Arbor, May 1998.
11. A.H. Buist, G.J. Brakenhoff, T.B. Norris, J. Squier, Mand M. Muller, "Ultrafast Laser Requirements for Biological Applications from Two-Photon to Molecular Relaxation Imaging," invited paper 3269-18 presented at the SPIE Photonics West Lase'98 Conference, San Jose, 1998.
10. T.B. Norris, "Optical Switches and Nanoelectronics," invited paper presented at the Manipulation of Coherent Quantum Phenomena Workshop, Princeton, May 1997.
9. T.B. Norris, "Microcavities and Exciton Dynamics," invited paper presented at CLEO/Pacific Rim, Chiba, 1997.
8. T.B. Norris, J.-K. Rhee, D.S. Citrin, E. Hanamura, M. Nishioka, and Y. Arakawa, "Coherence Transfer of Cavity Polaritons," invited paper presented at the OSA Annual Meeting, Rochester, 1996.
7. T.B. Norris, "Ultrafast Spectroscopy of Carriers and Excitons in Semiconductor Microcavities," invited paper presented at the 5th ISSP Interantional Symposium, Frontiers in Laser Physics and Spectroscopy, University of Tokyo, 1995.
6. T.B. Norris, "Coherent and Incoherent Dynamics of Excitons in Semiconductor Microcavities," invited paper presented at the Fourth International Meeting on Optics of Excitons in Confined Systems, Cortona, 1995.
5. T.B. Norris, "Ultrafast High Spatial Resolution," invited tutorial presented at the ILS-XI/OSA Annual Meeting, Portland, 1995.
4. T.B. Norris, "Overshoot Dynamics in GaAs Observed Using THz Radiation," invited paper presented at the LEOS '93 meeting, San Jose, 1993.

3. T.B. Norris, "Terahertz Pulse Generation and Amplification: Carrier Transport Effects, " invited paper presented at the OSA Annual Meeting, Toronto, 1993.
2. T.B. Norris, W. Sha, and J. Rhee, "Time-Resolved Observation of Ballistic Electrons in a Quantum Well," invited paper QWB1 at the Quantum Electronics and Laser Science Conference, Anaheim, CA, 1992.
1. T.B. Norris, "Parallel Transport in GaAs Quantum Wells Studied by Femtosecond Optical Spectroscopy," invited paper presented at the High Speed/High Frequency Optoelectronics Conference (Engineering Foundation), Palm Coast, FL, 1991.

## CONTRIBUTED CONFERENCE PRESENTATIONS

125. C. Tse, M. Zohdy, J.Y. Ye, T.B. Norris, L. Balogh, K. Hollman, and M. O'Donnell, "Monitoring LIOB-Induced Bubble Characteristics in Gelatin using High-Frequency Ultrasound, submitted to the SPIE Medical Imaging 2004 conference, San Diego, 2004.
124. Z.-K. Wu, K. Kim, T.B. Norris, S. Ghosh, and P. Bhattacharya, "Ultrafast Carrier Dynamics in Tunneling Injection Quantum Dot Lasers," paper QTH12, presented at QELS, Baltimore, 2003.
123. K. Kim, T.B. Norris, S. Ghosh, J. Singh, P. Bhattacharya, "Temperature-Dependent Carrier Distributions and Level Degeneracy in Self-Assembled Quantum Dots, " paper Qth16, presented at QELS, Baltimore, 2003.
122. B.C. Daly, N.C. Holme, M.T. Myaing, and T.B. Norris, "Diffraction-Induced Transformation of Picosecond Acoustic Pulses," paper CWE7, presented at CLEO, Baltimore, 2003.
121. G. Chang, H.G. Winful, and T.B. Norris, "Optimization of Supercontinuum Generation in Photonic Crystal Fibers for Pulse Compression," paper CthV4, presented at CLEO, Baltimore, 2003.
120. T. Buma and T.B. Norris, "Time-Reversal 3-D Imaging Using Single-Cycle THz Pulses," paper CMP4, presented at CLEO, Baltimore, 2003.
119. M.T. Myaing, J.Y. Ye, T.B. Norris, T. Thomas, A. Kotylar, A. Patri, J.R. Baker, Jr., W.J. Wadsworth, R.M. Percival, G. Bouwmans, J.C. Knight, and P. St.J. Russell, "Enhanced Biosensing Using Photonic Crystal Fibers," paper CMG2, presented at CLEO, Baltimore, 2003.
118. Z.-K. Wu, A. Stiff-Roberts, P. Bhattacharya, and T.B. Norris, "Two-photon absorption in a quantum dot infrared photodetector," paper CthM11, presented at CLEO, Baltimore, 2003.
117. K. Kim, T. Norris, J. Singh, P. Bhattacharya, "Temperature-dependent transparency conditions and spatial degeneracy in self-organized quantum dots," paper WC4 presented at the OSA Topical Meeting on Ultrafast Electronics and Optoelectronics, Washington, DC, 2003.
116. M. Kira, W. Hoyer, S.W. Koch, Y.S. Lee, T.B. Norris, G. Khitrova, and H.M. Gibbs, "Incoherent Pulse Generation in Semiconductor Microcavities," Nonlinear Optics and Excitation Kinetics in Semiconductors Conference, Karlsruhe, 2003.
115. P. Bhattacharya, S. Ghosh, Z.-K. Wu, and T. Norris, "High Speed Quantum Dot Lasers," COMMAD 2002.
114. M. O'Donnell, S. Milas, J.Y. Ye, T.B. Norris, L. Balogh, K. Hollman, and S. Emelianov, "Acoustic Detection of LIOB in Dendrimer Nanocomposites: Implications for Site Targeted Molecular Diagnostics and Therapeutics," IEEE Ultrasonics Symposium, Munich, 2002.
113. L. Balogh, J. Y. Ye, T.B. Norris, J. Baker, Jr., S. Milas, K. Hollman, S. Emelianov, M. O'Donnell, "Enhancement and Acoustic Characterization of Laser-Induced Optical Breakdown of Metal/Dendrimer Nanocomposites," Materials Research Society Fall Meeting, 2002.
112. J.Y. Ye, L. Balogh, and T.B. Norris, "Enhancement of Laser-Induced Optical Breakdown using Metal/Dendrimer Nanocomposites," , paper CMT5 presented at CLEO, Long Beach, 2002.

111. S. Ghosh, P. Bhattacharya, J. Urayama, Z.-K. Wu, T. Norris, and K. Kamath, "Tunnel Injection Quantum Dot Lasers," , " paper CthO52 presented at CLEO, Long Beach, 2002.
110. K. Kim, J. Urayama, T.B. Norris, J. Singh, J. Phillips, and P. Bhattacharya, "Gain Dynamics and Spectral Hole Burning in In(Ga)As Self-Organized Quantum Dots," , " paper QWD6 presented at QELS, Long Beach, 2002.
109. Y.S. Lee and T.B. Norris, "Terahertz Pulse Shaping and Optimal Waveform Generation in Poled Ferroelectric Crystals," , " paper QWA24 presented at QELS, Long Beach, 2002.
108. J. Urayama, T.B. Norris, H. Jiang, J. Singh, and P. Bhattacharya, "Time-resolved Measurement of Temperature-Dependent Carrier Dynamics in Self-Organized InGaAs Quantum Dots," paper QThB7 presented at QELS, Long Beach, 2002.
107. N.C.R. Holme, M.T. Myaing, and T.B. Norris, "Gouy Phase Shift of Single-Cycle Picosecond Acoustic Pulses," paper presented at the Thirteenth International Conference on Ultrafast Phenomena, Vancouver, 2002.
106. K. Kim, T.B. Norris, and P. Bhattacharya, "Gain Dynamics and Spectral Hole-Burning in In(Ga)As Self-Assembled Quantum Dots," presented at the LEOS Annual Meeting, San Diego, 2001.
105. J. Urayama, T.B. Norris, J. Singh, and P. Bhattacharya, "Observation of Phonon Bottleneck in Quantum Dot Electronic Relaxation," presented at the Alaska Meeting on Fundamental Optical Processes in Semiconductors (AMFOPS), Girdwood, 2001.
104. A.B. Ruffin, J. Decker, L. Sanchez-Palencia, L. LeHors, J.F. Whitaker, T.B. Norris, and J. Van Rudd, "Time-Reversed Image Synthesis of Dielectric Objects," paper CThS2 presented at CLEO, Baltimore, 2001.
103. Y.S. Lee, T.B. Norris, G. Khitrova, H.M. Gibbs, C. Sieh, T. Meier, S.W. Koch, and F. Jahnke, "Coherent Optical Nonlinearities in Normal Mode Microcavities," paper QThL2 presented at QELS, Baltimore, 2001.
102. L. Sherman, J.Y. Ye, and T.B. Norris, "Adaptive Aberration Correction for Specimen-Induced Spherical Aberration," paper CWE5 presented at CLEO, Baltimore, 2001.
101. J. Urayama, T.B. Norris, J. Singh, and P. Bhattacharya, "Time-Resolved Measurement of Phonon Bottleneck in Self-Organized Quantum Dot Relaxation," paper QWC6 presented at QELS, Baltimore, 2001.
100. J. Urayama, T.B. Norris, J. Singh, and P. Bhattacharya, "Observation of Phonon Bottleneck in Quantum Dot Electronic Relaxation," presented at the OSA Topical Meeting on Ultrafast Electronics and Optoelectronics, Lake Tahoe, 2001.
99. A. B. Ruffin, L. Sanchez-Palencia, L. Le Hors, J. Whitaker, T.B. Norris, and J. Van Rudd, "THz Imaging via Time Reversal of Single-Cycle Pulses," to be presented at the OSA Topical Meeting on Ultrafast Electronics and Optoelectronics, Lake Tahoe, 2001.
98. S. Krishna, P. Bhattacharya, J. Singh, J. Urayama, T.B. Norris, P.J. McCann, and K. Namjou, "A Room Temperature Unipolar Quantum Dot Intersubband Long-Wavelength Laser ( $\lambda=13\mu\text{m}$ )," IEEE/LEOS Annual Meeting, San Juan, November 2000.
97. A. B. Ruffin, L. Sanchez-Palencia, L. Le Hors, J. Van Rudd, J. Whitaker, and T.B. Norris, "Time Reversal and Object Reconstruction Using Single-Cycle Terahertz Pulses," presented at the OSA Annual Meeting, Providence, October 2000.
96. Y.-S. Lee, T.B. Norris, A.V. Maslov, and D.S. Citrin, "Coherent Control and Nonlinear Interactions of Semiconductor Cavity Polaritons," presented at the Ultrafast Phenomena Conference, Charleston, 2000.
95. T. Meade, Y.-S. Lee, V. Perlin, H. Winful, T.B. Norris, and A. Galvanauskas, "Generation of Narrow-Band Terahertz Pulses by Optical Rectification in Periodically-Poled Lithium Niobate," presented at the Ultrafast Phenomena Conference, Charleston, 2000.
94. T.B. Norris, Y.-S. Lee, T. Meade, M. DeCamp, C. Herne, V. Perlin, H. Winful, and A. Galvanauskas, "Narrow-Band THz Waveforms from Optical Rectification of Femtosecond Optical Pulses in Periodically Poled Lithium Niobate," postdeadline paper presented at the Conference on Lasers and ElectroOptics, San Francisco, May 2000.

93. J. Urayama, T.B. Norris, K. Kamath, and P. Bhattacharya, "Evidence of Interdot Carrier Coupling in In<sub>0.4</sub>Ga<sub>0.6</sub>As Self-Assembled Quantum Dots," paper QMJ5, Quantum Electronics and Laser Science Conference, San Francisco, May 2000.
92. Y.S. Lee, T.B. Norris, M. Kira, F. Jahnke, S.W. Koch, G. Khitrova, and H.M. Gibbs, "Quantum Correlation Induced Intraband Coherences in a Quantum-Well Microcavity," paper QtuB6, Quantum Electronics and Laser Science Conference, San Francisco, May 2000.
91. M.T. Myaing, J. Urayama, and T.B. Norris, "Nonlinear Propagation of Negatively Chirped Pulses; Maximizing the Intensity at the Output of a Fiber Probe," paper CThM25, Conference on Lasers and Electro-Optics, San Francisco, May 2000.
90. Y.S. Lee, T.B. Norris, M. Kira, F. Jahnke, S.W. Koch, G. Khitrova, and H.M. Gibbs, "Coherent Control of Cavity-Polariton Secondary Emission," paper QThQ4, Quantum Electronics and Laser Science Conference, San Francisco, May 2000.
89. T. Meade, Y.-S. Lee, V. Perlin, H. Winful, T.B. Norris, and A. Galvanauskas, "Generation of Narrow-Band Terahertz Pulses by Optical Rectification in Periodically-Poled Lithium Niobate," presented at the 11<sup>th</sup> Int. Symp. on Space Terahertz Technology, Ann Arbor, 2000.
88. Y.-S. Lee, T.B. Norris, M. Kira, F. Jahnke, S.W. Koch, G. Khitrova, and H.M. Gibbs, "Intraband Quantum Correlations in a Coherently Controlled Semiconductor Quantum Well Microcavity," presented at the 6<sup>th</sup> International Conference on Nonlinear Optics and Excitation Kinetics in Semiconductors, Marburg, April 2000.
87. L. Sherman, O. Albert, G. Mourou, T.B. Norris, and G. Vdovin, "Adaptive Compensation of Aberrations in Ultrafast 3D Microscopy using a Deformable Mirror," presented at the BiOS 2000 Photonics West Conference, San Jose, January 2000.
86. Y.-S. Lee, T.B. Norris, M. Kira, F. Jahnke, S.W. Koch, A. Maslov, D.S. Citrin, J. Prineas, G. Khitrova, and H.M. Gibbs, "Correlations and Coherent Control of Normal Modes in a Microcavity," International Conference on Excitons in Confined Systems, Ascona, Switzerland, 1999.
85. O. Albert, M.H. Meunier, G. Cheriaux, T. Norris, G. Mourou, and G. Vdovin, "Aberration Correction in Ultrafast Scanning Multiphoton Confocal Microscopy," International Workshop on Adaptive Optics for Industry and Medicine, Durham (UK), 1999.
84. Y.-S. Lee, T.B. Norris, A. Maslov, D.S. Citrin, J. Prineas, G. Khitrova, and H.M. Gibbs, "Coherent Control of Polaritons in a Quantum-Well Microcavity," paper QMF1, QELS, Baltimore, 1999.
83. L.R. Bruner, O. Albert, G. Cheriaux, G. Mourou, T. Norris, and G. Vdovin, "Linear Pre-Compensation of SPM-Induced Pulse Distortions with a Deformable Mirror," paper CTuR3, CLEO, Baltimore, 1999.
82. M.H. Meunier, O. Albert, G. Cheriaux, T. Norris, G. Mourou, and G. Vdovin, "Aberration Correction in Scanning Ultrafast Confocal Microscopy using a Deformable Mirror," paper CME2, CLEO, Baltimore, 1999.
81. Y.-S. Lee, A. Maslov, T.B. Norris, D.S. Citrin, J. Prineas, G. Khitrova, and H.M. Gibbs, "Coherent Control of Normal Modes in Quantum Well Semiconductor Microcavity," paper FH6, OSA/ILS-XIV, 14th Interdisciplinary Laser Science Conference, Baltimore, 1998.
80. T.S. Sosnowski, J. Urayama, T.B. Norris, H. Jiang, J. Singh, K. Kamath, and P. Bhattacharya, "Ultrafast Carrier Capture and Relaxation in InGaAs Self-Organized Quantum Dots," paper QThC4, International Quantum Electronics Conference, San Francisco, 1998.
79. Y.-S. Lee, T.B. Norris, A. Maslov, D.S. Citrin, J. Prineas, G. Khitrova, and H.M. Gibbs, "Coherent Control of Normal Modes in a Semiconductor Microcavity," postdeadline paper QPD3, International Quantum Electronics Conference, San Francisco, 1998.
78. T.S. Sosnowski, T.B. Norris, H. Jiang, J. Singh, K. Kamath, and P. Bhattacharya, "Ultrafast Carrier Capture and Relaxation in InGaAs Self-Organized Quantum Dots," paper RMB2, OSA Workshop on Radiative Processes and Dephasing in Semiconductors, Coeur d'Alene, 1998.

77. K. Kamath, H. Jiang, D. Klotzkin, J. Phillips, T. Sosnowski, T. Norris, J. Singh, and P. Bhattacharya, "Strain Tensor, Electronic Spectra, and Carrier Dynamics in In(Ga)As/GaAs Self-Assembled Quantum Dots," Proceedings of 24th International Symposium on Compound Semiconductors, 1997.
76. T.S. Sosnowski, T.B. Norris, H. Jiang, J. Singh, K. Kamath, and P. Bhattacharya, "Ultrafast Carrier Capture and Relaxation in InGaAs Self-Organized Quantum Dots," postdeadline paper, OSA/ILS-XIII, 13th Interdisciplinary Laser Science Conference, Long Beach CA.
75. A. Braun, T. Sosnowski, S. Kane, and T. Norris, "Tunable Third-Order Phase Compensation by Refraction from an Intra-Grating-Pair Parallel Plate," OSA Annual Meeting, paper MKK3, Long Beach, 1997.
74. T.S. Sosnowski, T.B. Norris, P. Grenier, and J.F. Whitaker, "Defect-Enhanced Auger Recombination and High-Carrier-Density Phenomena in Low-Temperature-Grown GaAs," paper JWA7, Conference on Lasers and Electro-Optics, Baltimore, 1997.
73. D. S. Citrin and T. B. Norris, "Optical switching at 100-Gb/s rates via coherent control of excitons in a semiconductor microcavity," paper PThC5, Photonics in Switching, Stockholm, Sweden, April 1997.
72. D. Klotzkin, K. Kamath, T. Sosnowski, J. Phillips, T. Norris, and P. Bhattacharya, "Modulation Properties and the Phonon Bottleneck in Self-Organized Single and Multilayer InGaAs/GaAs Quantum Dot Room Temperature Lasers," 16th Biennial IEEE/Cornell University Conference, 1997.
71. K. Kamath, D. Klotzkin, T. Sosnowski, H. Jiang, T. Norris, J. Singh, P. Bhattacharya, M. Dutta, M. Salib, G. Kioseogluo, and A. Petrou, "Carrier Capture and Recombination Dynamics in High-Speed Single-Mode Self-Organized InGaAs/GaAs Quantum Dot Lasers," 8th Annual Conference on Modulated Semiconductor Structures, 1997.
70. K. Kamath, D. Klotzkin, T. Sosnowski, J. Phillips, T. Norris, and P. Bhattacharya, "Carrier Dynamics and Modulation Characteristics of InGaAs/GaAs Self-Organized Quantum Dot Lasers," Device Research Conference, 1997.
69. K. Kamath, T. Sosnowski, H. Jiang, N. Chervela, T. Norris, J. Singh, and P. Bhattacharya, "Carrier Dynamics in Self-Assembled GaInAs/GaAs Single- and Multi-Quantum Dot Layers," paper J5, Electronic Materials Conference, Fort Collins, 1997.
68. T.S. Sosnowski, T.B. Norris, H.H. Wang, P. Grenier, J.F. Whitaker, and C.Y. Sung, "High-Carrier-Density Pump-Probe Measurements of Low-Temperature-Grown GaAs," OSA Topical Meeting on Ultrafast Electronics and Optoelectronics, paper UWB5, Lake Tahoe, 1997.
67. R.K. Lai, J.-R. Hwang, J. Nees, T.B. Norris, and J.F. Whitaker, "Ultra-high-Sensitivity, Ultrafast-Response Photoconductive Probe," OSA Topical Meeting on Ultrafast Electronics and Optoelectronics, paper UWA6, Lake Tahoe, 1997.
66. S. Smith, N.C.R. Holme, R. Kopelman, B. Orr, and T. Norris, "Ultrafast Measurements in GaAs Thin Films using NSOM," presented at NFO-4, Jerusalem, 1997.
65. K. Kamath, J. Phillips, T. Sosnowski, X. Zhang, T. Norris, and P. Bhattacharya, "Room Temperature Operation of MBE Self-Organized InGaAs Quantum Dot Lasers," LEOS Annual Meeting, 1996.
64. G.J. Brakenhoff, T.S. Sosnowski, A.H. Buist, T.B. Norris, J. Squier and M. Muller. "Double pulse fluorescence excitation for the imaging of molecular relaxation," OSA Annual Meeting, paper ThE6, Rochester, 1996.
63. G.J. Brakenhoff, T.S. Sosnowski, A.H. Buist, T.B. Norris, J. Squier, and M. Muller, "Double Pulse Fluorescence Lifetime Measurements," presented at the 3-D Imaging Sciences Conference, Oxford, 1996.
62. G.J. Brakenhoff, T.S. Sosnowski, A.H. Buist, T. Norris, J. Squier and M. Muller, "Double pulse fluorescence lifetime measurements," 2nd International Fluorescence Lifetime Imaging Meeting, Utrecht, The Netherlands, 1996.

61. A. Braun, S. Kane, and T. Norris, "Compensation of SPM-Induced Pulse Distortions in Chirped-Pulse Amplification Systems," paper TuE4, Tenth OSA Topical Meeting on Ultrafast Phenomena, San Diego, 1996.
60. S. Smith, N.C.R. Holme, M. Kwok, B.G. Orr, R. Kopelman, and T.B. Norris, "Ultrafast Equal-Pulse Correlation Measurements in GaAs Structures with a Near-Field Microscope," paper TuE43, Tenth OSA Topical Meeting on Ultrafast Phenomena, San Diego, 1996.
59. J.-K. Rhee, T.B. Norris, D.S. Citrin, Y. Arakawa, M. Nishioka, and E. Hanamura, "Coherence Transfer in Exciton-Exciton Scattering in a Semiconductor Microcavity," paper ThB1, Tenth OSA Topical Meeting on Ultrafast Phenomena, San Diego, 1996.
58. J.-R. Hwang, R.K. Lai, J. Nees, T. Norris, and J.F. Whitaker, "Photoconductive Sampling Through Insulating Layers with Microvolt Sensitivity," postdeadline paper CPD6 presented at CLEO, Anaheim, 1996.
57. S. Smith, M. Kwok, B.G. Orr, R. Kopelman, and T.B. Norris, "Decreased Depth of Field in Near-Field Microscopy," paper CTuL5 presented at CLEO, Anaheim, 1996.
56. S. Kane, A. Braun, and T.B. Norris, "Compensation of SPM-Induced Pulse Distortions in Chirped-Pulse Amplification," paper CTuL6 presented at CLEO, Anaheim, 1996.
55. C.Y. Sung, H.H. Wang, T.B. Norris, and J.F. Whitaker, "Ultrafast Electron and Hole Trapping Times and Defect Band Saturation Dynamics in Low-Temperature-Grown GaAs, paper CTho6 presented at CLEO, Anaheim, 1996.
54. C.Y. Sung, T.B. Norris, Y. Lam, J. Singh, X.R. Zhang, and P.K. Bhattacharya, "Gain Recovery Dynamics: Femtosecond Time-Resolved Spectral Hole Burning and Carrier Capture in a Separate-Confinement QW Laser Structure," paper CMH6 presented at CLEO, Anaheim, 1996.
53. T.B. Norris, J.F. Whitaker, C.Y. Sung, H.H. Wang, and T. Sosnowski, "Time-Resolved Electron and Hole Trapping and Trap Saturation Dynamics in LT-GaAs," presented at the AFOSR Workshop on Nonstoichiometric GaAs and Related Materials, Santa Barbara, 1996.
52. J.F. Whitaker, H.H. Wang, P. Grenier, T.B. Norris, Z. Liliental-Weber, W. Walukiewicz, M. Almonte, A. Prasad and H. Fujioka, "Ultrafast Optical Response: Ion-Implanted GaAs vs. LT-GaAs", presented at the AFOSR Workshop on Nonstoichiometric GaAs and Related Materials, Santa Barbara, 1996.
51. T.S. Sosnowski, P. Stephens, and T.B. Norris, "Generation of 30-fs Pulses Throughout the Visible Spectral Region," paper MMM5 presented at the ILS-XI/OSA Annual Meeting, Portland, 1995.
50. J.-K. Rhee, T.S. Sosnowski, A.-C. Tien, and T.B. Norris, "Real-Time Phase Measurement of Femtosecond Pulses Using Spectrally and Temporally Resolved Upconversion Technique," paper MZZ4 presented at the ILS-XI/OSA Annual Meeting, Portland, 1995.
49. C.Y. Sung, T.B. Norris, X.K. Zhang, A. Afzali-Kushaa, and G.I. Haddad, "Population Inversion in Novel Stepped Quantum Well FIR Laser Structures," paper TuX4 presented at the ILS-XI/OSA Annual Meeting, Portland, 1995.
48. J.-K. Rhee, D.S. Citrin, T.B. Norris, M. Nishioka, and Y. Arakawa, "Coherence Transfer and Radiative Dynamics in Strongly-Coupled Microcavities," paper WJ6 presented at the ILS-XI/OSA Annual Meeting, Portland, 1995.
47. J.F. Whitaker, H.H. Wang, C.Y. Sung, T. Sosnowski, T.B. Norris, H. Fujioka, and Z. Liliental-Weber, "Ultrafast Carrier Response of Low-Temperature-Grown and Arsenic-Implanted GaAs," invited paper presented at the 9th International Conference on Ultrafast Phenomena in Semiconductors, Vilnius, 1995.
46. C.Y. Sung, T.B. Norris, X.K. Zhang, Y.L. Lam, I. Vurgaftman, J. Sungh, and P.K. Bhattacharya, "Studies of Carrier Relaxation in Low Dimensional Structures," presented at the Modulated Semiconductor Structures conference, Madrid, 1995.
45. C.Y. Sung, A. Afzali-Kushaa, T.B. Norris, X. Zhang, and G.I. Haddad, "Time-Resolved Femtosecond Intersubband Relaxations and Population Inversion in Stepped Quantum

- Wells," presented at the International Conference on Hot Carriers in Semiconductors, Chicago, 1995.
44. S. Smith, B.G. Orr, R. Kopelman, and T.B. Norris, "Equal Pulse Correlation with Near-Field Microscopy," presented at the Third International Conference on Near-Field Optics, Brno, Czechoslovakia, 1995.
  43. X. Zhang, G.I. Haddad, J.P. Sun, A. Kushaa, C.Y. Sung, and T. Norris, "Population Inversion in Step Quantum Wells at 10-micron Wavelength," paper VA-1 presented at the Device Research Conference, Charlottesville, 1995.
  42. J.-K. Rhee, T.S. Sosnowski, A.-C. Tien, and T.B. Norris, "Real-Time Dispersion Analyzer of Femtosecond Laser Pulses Using a Spectrally and Temporally Resolved Upconversion Technique," postdeadline paper presented at CLEO, Baltimore, 1995.
  41. C.Y. Sung, T.B. Norris, X.K. Zhang, M. Sneed, and P.K. Bhattacharya, "Time-Resolved Carrier Capture in Quantum Well Separate Confinement Heterostructures," paper QFF3 presented at QELS, Baltimore, 1995.
  40. S. Smith, B.G. Orr, R. Kopelman, and T.B. Norris, "Equal Pulse Correlation in GaAs Thin Films with Near-Field Microscopy," paper QTuJ5 presented at QELS 1995, Baltimore.
  39. J.-K. Rhee, R. Lai, T.B. Norris, Y. Arakawa, and M. Nishioka, "Nonlinear Vacuum Rabi Splitting in Semiconductor Microcavities," paper QTh13 presented at QELS, Baltimore, 1995.
  38. L.-M. Yang, T. Sosnowski, J. Squier, T.B. Norris, J. Nees, A. Migus, G. Mourou, M.L. Dennis, and I.N. Duling III, "Upconversion Chirped Pulse Amplification in a Multimode Tm:ZBLAN Fiber and Temporal Resolved Modal Analysis," paper CMB3 presented at CLEO 1995, Baltimore.
  37. T.B. Norris, C.Y. Sung, A. Afzali-Kushaa, and G.I. Haddad, "Intersubband Relaxation and Population Inversion in Stepped Quantum Wells," postdeadline paper presented at the OSA Topical Meeting on Quantum Optoelectronics, Dana Point, 1995.
  36. S. Smith, B.G. Orr, R. Kopelman, and T.B. Norris, "Equal Pulse Correlation in GaAs Thin Films with Near-Field Microscopy," paper QThE16 presented at the OSA Topical Meeting on Quantum Optoelectronics, Dana Point, 1995.
  35. J.-K. Rhee, R. Lai, T.B. Norris, Y. Arakawa, and M. Nishioka, "Nonlinear Vacuum Rabi Splitting in Semiconductor Microcavities," paper QThA3 presented at the OSA Topical Meeting on Quantum Optoelectronics, Dana Point, 1995.
  34. T.B. Norris, "Spatially Resolving Carrier Dynamics in LT-GaAs Thin Films using Near-Field Microscopy," presented at the Workshop on Nonstoichiometric Semiconductors, New Orleans, 1995.
  33. L.-M. Yang, T. Sosnowski, M.L. Stock, T.B. Norris, J. Squier, G. Mourou, M.L. Dennis, and I.N. Duling III, "Upconversion Chirped Pulse Amplification of Ultrashort Pulses using a Multimode Tm:ZBLAN Fiber," presented at SPIE Photonics West / OE-Lase, San Jose, 1995.
  32. S. Smith, B.G. Orr, R. Kopelman, and T.B. Norris, "Femtosecond Near-Field Scanning Optical Microscope," paper MHH3, Optical Society of America Annual Meeting, Dallas, 1994.
  31. G.J. Brakenhoff, J. Squier, T.B. Norris, C. Bliton, and B. Athey, "Real Time Two-Photon Confocal Microscopy Using a Femtosecond, Amplified Ti:sapphire System," presented at the International Conference on Confocal and Near-Field Microscopy, Munich, Germany, 1994.
  30. R. Merlin, S.H. Kwok, T.B. Norris, H.T. Grahn, K. Ploog, L.L. Bonilla, J. Galan, J.A. Cuesta, F.C. Martinez, and J.M. Molera, "Dynamics of Resonant Tunneling Domains in Superlattices: Theory and Experiment," paper presented at International Conference on the Physics of Semiconductors, Vancouver, 1994.
  29. J. Son, J.-K. Rhee, T.B. Norris, and J.F. Whitaker, "Picosecond Dynamics of Transient Velocity Overshoot in Si Observed Using Terahertz Radiation Techniques," paper QMF2, International Quantum Electronics Conference, Anaheim 1994.

28. S. Smith, B.G. Orr, R. Kopelman, and T.B. Norris, "Femtosecond Near-Field Scanning Optical Microscope," paper CTuM5, Conference on Lasers and Electro-Optics, Anaheim 1994.
27. J.-K. Rhee, T.B. Norris, Y. Arakawa, M. Nishioka, and C. Weisbuch, "Time-Resolved Study of Vacuum-Rabi Oscillations in a Semiconductor Microcavity," paper QThE2, International Quantum Electronics Conference, Anaheim 1994.
26. T.B. Norris, S. Smith, J. Nees, and S. Williamson, "High Speed Optical and Electronic Probes with High Spatial Resolution," presented at the Engineering Foundation Conference on Surfaces and Interfaces in Mesoscopic Devices, Keauhou-Kona, Hawaii, 1994.
25. P.B. Klein, T.B. Norris, R.N. Bhargava, and D. Gallagher, "Picosecond Host-Impurity Energy Transfer Processes in Mn-Doped ZnS Nanocrystals," presented at the 1994 APS March Meeting.
24. A. Afzali-Kushaa, G.I. Haddad, and T.B. Norris, "THz Sources Based on Intersubband Transitions," Fourth International Symposium on Space Terahertz Technology, Los Angeles, CA, 1993.
23. A. Afzali-Kushaa, G.I. Haddad, and T.B. Norris, "On the Feasibility of Intersubband Transition Lasers," IEEE/Cornell University Conference on Advanced Concepts in High Speed Semiconductor Devices and Circuits, Ithaca, 1993.
22. A. Afzali-Kushaa, G.I. Haddad, and T.B. Norris, "Optically Pumped Intersubband Lasers," International Semiconductor Device Research Symposium, Charlottesville, VA, 1993.
21. T.B. Norris, J.-K. Rhee, C.Y. Sung, Y. Arakawa, M. Nishioka, and C. Weisbuch, "Time-Resolved Vacuum Rabi Oscillations in a Semiconductor Quantum Microcavity," postdeadline paper QPD19 at the Quantum Electronics and Laser Science Conference, Baltimore, MD, 1993.
20. J.-K. Rhee, T. Sosnowski, T.B. Norris, W.S. Colburn, and P.A. Ulrich, "Chirped Pulse Amplification in an 0.5-MHz Ti:sapphire Regenerative Amplifier," paper CFG6 at the Conference on Lasers and Electro-Optics, Baltimore, MD, 1993.
19. J. Son, W. Sha, J. Kim, T.B. Norris, J.F. Whitaker, and G.A. Mourou, "Picosecond Characteristics of Velocity Overshoot in GaAs up to 200 kV/cm," paper QWG3 at the Quantum Electronics and Laser Science Conference, Baltimore, MD, 1993.
18. S.H. Kwok, T.B. Norris, R. Merlin, H.T. Grahn, and K. Ploog, "Kinetics of Domain Boundaries in GaAs Sequential Resonant Tunneling Structures," Bulletin of the American Physical Society **38**, 813 (1993), proceedings of the 1993 March Meeting of APS.
17. J. Son, W. Sha, J. Kim, T.B. Norris, J.F. Whitaker, and G.A. Mourou, "Velocity Overshoot Dynamics in GaAs up to 200 kV/cm Observed Using Terahertz Radiation," presented at the Ultrafast Electronics and Optoelectronics Conference, San Francisco, 1993.
16. T.B. Norris, "Regenerative Amplification of Femtosecond Pulses in Ti:sapphire at >250 kHz," postdeadline paper presented at the Conference on Lasers and Electro-Optics, Anaheim, CA, 1992.
15. W. Sha, T.B. Norris, T. Motet, J.W. Burm, D. Woodard, and W.J. Schaff, "A Novel Detection Scheme for Terahertz Radiation Using the Excitonic Electroabsorption Effect," postdeadline paper presented at the Quantum Electronics and Laser Science Conference, Anaheim, CA, 1992.
14. W. Sha, J. Rhee, T.B. Norris, and W.J. Schaff, "Photoconductive Switching: Field and Carrier Dynamics," presented at the XVIII International Quantum Electronics Conference, Vienna, 1992.
13. T.B. Norris, W. Sha, and W.J. Schaff, "Time-Resolved Optical Studies of High-Field Electron Transport in GaAs Semiconductor Structures," presented at the SPIE Symposium on Compound Semiconductor Physics and Devices, Somerset, NJ, 1992.
12. W. Sha, T.B. Norris, W.J. Schaff, and K.E. Meyer, "Time-Resolved Observation of Quasi-Ballistic Acceleration of Electrons in Quantum Wells," Semiconductor Science and Technology **7**, B133 (1992), proceedings of the Seventh International Conference on Hot Carriers in Semiconductors, Nara, Japan, July 1991.

11. W. Sha, T.B. Norris, W.J. Schaff, and K.E. Meyer, "Transient Studies of Ballistic Acceleration of Electrons in a GaAs Quantum-Well Structure," postdeadline paper QPDP10 presented at the QELS conference, Baltimore, MD, June 1991.
10. T.B. Norris, W. Sha, W.J. Schaff, and X.J. Song, "Femtosecond Carrier Dynamics in Low-Temperature-MBE-Grown GaAs," in Technical Digest, Conference on Lasers and Electro-Optics (Optical Society of America, Washington, DC, 1991), paper CTuG4.
9. W. Sha, T.B. Norris, W.J. Schaff, and K.E. Meyer, "Femtosecond Time-Resolved Studies of High-Field Parallel Transport in GaAs Quantum Wells," postdeadline paper presented at the Quantum Optoelectronics Topical Meeting (Optical Society of America), Salt Lake City, March 1991.
8. T.B. Norris, W. Sha, W.J. Schaff, and X.J. Song, "Transient Absorption Studies of Low-Temperature-MBE-Grown GaAs," in OSA Proceedings on Picosecond Electronics and Optoelectronics, T.C.L.G. Sollner and J. Shah, eds., (Optical Society of America, Washington, DC, 1991), vol. 9, p. 244.
7. T.B. Norris, N. Vojdani, B. Vinter, C. Weisbuch, and G.A. Mourou, "Time-Resolved Observation of Luminescence from a Charge-Transfer State in Double Quantum Wells," in Picosecond Electronics and Optoelectronics, Proceedings of the OSA Topical Meeting on Picosecond Electronics and Optoelectronics, March 1989, Salt Lake City, Utah, ed. by T.C.L.G. Sollner and D.M. Bloom, p.106.
6. T.B. Norris, X.J. Song, G. Wicks, W.J. Schaff, L.F. Eastman, and G.A. Mourou, "Electric Field Dependence at the Tunneling Escape Time of Electrons from a Quantum Well," in Picosecond Electronics and Optoelectronics, Proceedings of the OSA Topical Meeting on Picosecond Electronics and Optoelectronics, March 1989, Salt Lake City, ed. by T.C.L.G. Sollner and D.M. Bloom, p. 121.
5. K. Meyer, T. Norris, M. Pessot, G. Mourou, R. Grondin, S. Chouman, M. Osman, and H. Grubin, "Study of Subpicosecond Hot Electron Transport in GaAs Using Transient Photoconductivity and Transient Absorption Spectroscopy," Workshop on Femtosecond Physics in Semiconductors, sponsored by the Office of Naval Research, Tempe, Arizona (December, 1987).
4. H. Elsayed-Ali, T. Norris, M. Pessot, and G. Mourou, "Femtosecond Time-Resolved Transmissivity of Laser Heated Thin Copper Films," in Technical Digest, International Quantum Electronics Conference (Optical Society of America, Washington, DC, 1986) paper #ThBB1.
3. T. Norris, I.N. Duling III, M. Pessot, T. Sizer II, J. Dawes, and G.A. Mourou, "Generation of Microjoule 65-fsec Pulses at High Repetition Rate," in Technical Digest, Conference on Lasers and Electro-Optics (Optical Society of America, Washington, DC, 1985), paper#TUE4.
2. T. Norris, T. Sizer II, and G. Mourou, "Generation of 90-fsec Pulses with a CPM Laser Pumped by a Frequency-Doubled cw Mode-Locked Nd:YAG," in Postdeadline Papers, Conference on Ultrafast Phenomena, Monterey, CA, 1984, and in Postdeadline Papers, International Quantum Electronics Conference, Anaheim, CA, 1984.
1. J.F. Whitaker, T. Norris, and G.A. Mourou, "Pulse Shaping in Dispersive Transmission Lines," in Technical Digest, Conference on Lasers and Electro-Optics (Optical Society of America, Washington, DC, 1984), paper#FP4.