

Journal Publications

1. G. Herink, F. Kurtz, B. Jalali, D. R. Solli, C. Ropers, “Real-time spectral interferometry probes the internal dynamics of femtosecond soliton molecules,” *Science* **356**, 50 (2017).
2. G. Herink, B. Jalali, C. Ropers, and D. R. Solli, “Resolving the build-up of femtosecond mode-locking with single-shot spectroscopy at 90 MHz frame rate,” *Nature Photonics* **10**, 321 (2016).
3. D. R. Solli and B. Jalali, “Analog optical computing,” *Nature Photonics* **9**, 704 (2015).
4. L. Wimmer, G. Herink, D. R. Solli, S. V. Yalunin, K. E. Echternkamp, and C. Ropers, “Terahertz control of nanotip photoemission,” *Nature Physics* **10**, 432 (2014).
5. P. T. S. DeVore, B. W. Buckley, M. H. Asghari, D. R. Solli, and B. Jalali, “Coherent time-stretch transform for near-field spectroscopy,” *IEEE Photonics Journal* **6**, 1 (2014).
6. D. R. Solli, C. Ropers, and B. Jalali, “Measuring single-shot modulation instability and supercontinuum spectra at megahertz rates,” *Nonlinearity* **26**, R85 (2013).
7. S. V. Yalunin, G. Herink, D. R. Solli, M. Krüger, P. Hommelhoff, M. Diehn, A. Munk and C. Ropers, “Field localization and rescattering in tip-enhanced photoemission,” *Ann. Phys.* **525**, L12 (2013).
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9. N. Akhmediev, J. M. Dudley, D. R. Solli, S. K. Turitsyn, “Recent progress in investigating optical rogue waves,” *Journal of Optics* **15**, 060201 (2013).
10. G. Herink, D. R. Solli, M. Gulde, and C. Ropers, “Field-driven photoemission from nanostructures quenches the quiver motion,” *Nature* **483**, 190 (2012).
11. D. R. Solli, G. Herink, B. Jalali, and C. Ropers, “Fluctuations and correlations in modulation instability,” *Nature Photonics* **6**, 463 (2012).
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12. P. T. S. DeVore, D. R. Solli, C. Ropers, P. Koonath, and B. Jalali, “Stimulated supercontinuum generation extends broadening limits in silicon,” *Appl. Phys. Lett.* **100**, 101111 (2012).
13. D. R. Solli and J. M. Hickmann, “Study of the properties of 2D photonic crystal structures as a function of the air-filling fraction and refractive index contrast,” *Opt. Mat.* **33**, 523 (2011).
14. A. M. Fard, P. T. S. DeVore, D. R. Solli, and B. Jalali, “Impact of Optical Nonlinearity on Performance of Photonic Time-Stretch Analog-to-Digital Converter,” *J. Lightwave Technol.* **29**, 2025 (2011).
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Also selected for “Viewpoint in Physics”: “Optical rogue waves on demand,” Physics **3**, 101 (2010).
16. D. R. Solli, C. Ropers, and B. Jalali, “Rare frustration of optical supercontinuum generation,” *Appl. Phys. Lett.* **96**, 151108 (2010).
17. P. Koonath, D. R. Solli, and B. Jalali, “Broadband coherent anti-Stokes Raman scattering in silicon,” *Opt. Lett.* **35**, 351 (2010).
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19. D. R. Solli, S. Gupta, and B. Jalali, “Optical phase recovery in the dispersive Fourier transform,” *Appl. Phys. Lett.* **95**, 231108 (2009).
20. B. Jalali, D. R. Solli, and S. Gupta, “Silicon’s time lens,” *Nature Photonics* **3**, 8 (2009).
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24. D. R. Solli, C. Ropers, and B. Jalali, "Active control of optical rogue waves for stimulated supercontinuum generation," *Phys. Rev. Lett.* **101**, 233902 (2008).
25. D. R. Solli, J. Chou, and B. Jalali, "Amplified wavelength-time transformation for real-time spectroscopy," *Nature Photonics* **2**, 48 (2008).
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31. L. L. Lima, M. A. R. C. Alencar, D. P. Caetano, D. R. Solli, and J. M. Hickmann, "The effect of disorder on 2D photonic crystal waveguides," *J. Appl. Phys.* **103**, 123102 (2008).
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42. D. R. Solli and J. M. Hickmann, "Photonic crystal based polarization control devices," *J. Phys. D: Appl. Phys.* **37**, R263-R268 (2004) *Invited*.
43. C. F. McCormick, D. R. Solli, R. Y. Chiao, and J. M. Hickmann, "Saturable nonlinear refraction in hot atomic vapor," *Phys. Rev. A* **69**, 023804 (2004).
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49. D. R. Solli, C. F. McCormick, R. Y. Chiao, and J. M. Hickmann, "Experimental demonstration of photonic crystal waveplates," *Appl. Phys. Lett.* **82**, 1036 (2003).
50. J. M. Hickmann, D. Solli, C. F. McCormick, R. Plambeck, and R. Y. Chiao, "Microwave measurements of the photonic band gap in a two-dimensional photonic crystal slab," *J. Appl. Phys.* **92**, 6918 (2002).
51. D. Solli, R. Y. Chiao, and J. M. Hickmann, "Superluminal effects and negative group delays in electronics, and their applications," *Phys. Rev. E* **66**, 056601 (2002).
52. D. Solli and R. Jeanloz, "Non-Metallic Gaskets for Ultrahigh Pressure Diamond-Cell Experiments," *Rev. Sci. Instrum.* **72**, 2110-2113 (2001).

Conference Presentations

1. "Real-time observation of hidden multi-soliton dynamics in a few-cycle Ti:Sapph oscillator," G. Herink, F. Kurtz, D. R. Solli, B. Jalali, and C. Ropers, *SPIE Photonics West*, San Francisco, 2017 (**Invited**).
2. "Analog gearbox for real-time metrology," B. Jalali, J. C. K. Chan, A. Mahjoubfar, D. R. Solli, M. H. Asghari, *SPIE Photonics West*, San Francisco, 2017.
3. "The Start of Femtosecond Mode-locking and Transient Soliton Dynamics Captured with Real-time Spectroscopy," G. Herink, B. Jalali, C. Ropers, D. R. Solli, *CLEO/QELS*, San Jose, 2016.
4. "Resolving the buildup of mode-locking with real-time spectroscopy at 90 MHz," G. Herink, C. Ropers, B. Jalali, and D. R. Solli, *SPIE Photonics West*, San Francisco, 2016 (**Invited**).
5. L. Wimmer, G. Herink, K. E. Echternkamp, S. V. Yalunin, D. R. Solli, M. Gulde, and C. Ropers, "THz-Controlled Photoelectron Emission from Nanotips," *Ultrafast Phenomena XIX*, Okinawa, 2014.
6. G. Herink, L. Wimmer, D. R. Solli, K. E. Echternkamp, S. V. Yalunin, C. Ropers, "Enhanced THz-near-field controls nanotip photoemission," *International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz)*, Tucson, 2014.
7. P. T. S. DeVore, B. W. Buckley, M. H. Asghari, D. R. Solli, B. Jalali, "Near-field and complex-field time-stretch transform," *SPIE Photonics Europe*, Brussels, 2014.
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9. G. Herink, D. R. Solli, L. Wimmer, M. Gulde, K. Echternkamp, S. V. Yalunin, R. Bormann, and C. Ropers, "Photoemission at metallic nanostructures: multiphoton and strong-field dynamics," *Photonics West*, San Francisco, 2013.
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11. P. DeVore, D. R. Solli, C. Ropers, P. Koonath, and B. Jalali, "Stimulated Modulation Instability in Silicon for Energy Efficient Supercontinuum Generation," *Nonlinear Photonics*, Colorado Springs, 2012.
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13. P. T. S. DeVore, D. R. Solli, C. Ropers, P. Koonath, and B. Jalali, "Stimulated modulation instability in silicon for energy efficient supercontinuum generation," *Nonlinear Photonics*, Colorado Springs, 2012.
14. G. Herink, D. R. Solli, M. Gulde, and C. Ropers, "Mid-infrared Photoelectron Emission and Acceleration at Metallic Nanotips," *High Intensity Lasers and High Field Phenomena*, Berlin, 2012.
15. B. Jalali, D. R. Solli, and C. Ropers, "Real-time Measurements, Rogue Events and Photon Economics," *Rogue Waves International Workshop*, Dresden, 2011 (**Invited**).
16. D. R. Solli, C. Ropers, and B. Jalali, "Optical rogue waves and stimulated supercontinuum generation," *SPIE Photonics Europe*, Brussels, 2010 (**Invited**).
17. D. R. Solli, C. Ropers, and B. Jalali, "Optical rogue waves," *European Optical Society Annual Meeting*, Paris, 2010 (**Invited**).
18. D. R. Solli, C. Ropers, and B. Jalali, "Stimulated supercontinuum generation," *The Optical Fiber Communication Conference and Exposition (OFC)*, San Diego, 2009 (**Invited**).
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22. P. Koonath, D. R. Solli, and B. Jalali, "Broadband CARS Wavelength Conversion in Silicon," *6th International Conference on Group IV Photonics*, San Francisco, 2009.
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33. D. R. Solli and B. Jalali, "Direct Time-Domain Measurements of the Pulse Amplitude Statistics of a Fiber Supercontinuum Source," *CLEO/QELS*, Baltimore, 2007.

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46. D. R. Solli, C. F. McCormick, R. Y. Chiao, J. M. Hickmann, "Collinear optical weak measurements with photonic crystals," *CLEO/QELS*, Baltimore, 2003 (**Postdeadline Paper**).
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49. D. R. Solli, C. F. McCormick, R. Y. Chiao, and J. M. Hickmann, "Experimental demonstration of 'fast light' in an absorptionless, non-reflective system using the birefringence of a photonic crystal," *CLEO/Europe-EQEC*, Munich, 2003 (**Postdeadline paper**).
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55. J. M. Hickmann, D. Solli, C. McCormick, and R. Y. Chiao, "Measurement of the photonic bandgap in a hcp photonic crystal," *The Sir Mark Oliphant International Frontiers of Science and Technology Conference - Photonic Crystals Down Under*, Sydney, 2002.
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57. J. M. Hickmann, C. Ropers, D. Solli, and R. Y. Chiao, "Superluminal propagations and their applications," *The 2001 Workshop on Laser Physics and Quantum Optics - Ramsey Fest*, Jackson Hole, 2001.
58. D. Solli and R. Jeanloz, "Non-Metallic Gaskets for Ultrahigh Pressure Diamond-Cell Experiments," *American Geophysical Union Meeting*, San Francisco, 1998.

Magazine Articles

1. T. Godin, B. Wetzell, J. M. Dudley, G. Herink, F. Dias, G. Genty, B. Jalali, C. Ropers, and D. R. Solli, "Ultrafast Single-Shot Measurements in Modulation Instability and Supercontinuum," *Optics and Photonics News (Optics in 2013)*, p. 55 (Dec 2013).
2. G. Herink, D. R. Solli, M. Gulde, C. Ropers, "Photoeffekt an Nanostrukturen: der klassische Grenzfall," *Physik in unserer Zeit* **43**, 165 (Jul 2012).
3. D. R. Solli and J. M. Hickmann, "Controlling the Speed of Light," *Optics and Photonics News (Optics in 2004)*, p. 40 (Dec 2004).
4. D. R. Solli, C. F. McCormick, R. Y. Chiao, and J. M. Hickmann, "Polarization Control Using Photonic Crystals," *Optics and Photonics News (Optics in 2003)*, p. 35 (Dec 2003).

Book Chapters

1. G. Herink, D. R. Solli, M. Gulde, R. Bormann, and C. Ropers, "Strong-Field Photoemission from Metallic Nanotips," S. Sakabe et al. (eds.), *Progress in Nonlinear Nano-Optics*, Springer International Publishing, Switzerland 2015, pp. 185-192.
2. R. Y. Chiao, J. M. Hickmann, C. Ropers, and D. Solli, "Faster-than-light propagations, and their applications," N. Bigelow, J. H. Eberly, C. R. Stroud, I. A. Walmsley (Org.), *Coherence and Quantum Optics*, New York 2003, v. VIII p. 109.
3. R. Y. Chiao, D. Solli, and J. M. Hickmann, "High Energy Electrons and Synchrotron Radiation from a Photonic Band-Gap Fiber Accelerator," P. Chen (Org.), *Quantum Aspects of Beam Physics*, Singapore 2002, pp. 290-300.
4. R. Y. Chiao, J. M. Hickmann, and D. Solli, "Faster-than-light effects and negative group delays in optics and electronics, and their applications," *Proceedings of SPIE*, Washington 2001, v. 4283, pp. 16-23, (**Invited**).

e-Prints

1. L. Wimmer, G. Herink, D. R. Solli, S. V. Yalunin, K. Echtenkamp, and C. Ropers, "Controlling and streaking nanotip photoemission by enhanced single-cycle terahertz pulses," arXiv:1307.2581 (2013).
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5. J. Chou, D. R. Solli, B. Jalali, "Real-time Spectroscopy with Sub-GHz Resolution using Amplified Dispersive Fourier Transformation," arXiv:0803.1654v1 (2008).
6. K. Goda, D. R. Solli, B. Jalali, "Amplified Dispersive Optical Tomography," arXiv:0802.0885v2 (2008).
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