

Vadim V. Lozovoy - List of Publications as on Nov 20 2015

137. I. Saytashev, M. Nairat, S. Bonora, V. V. Lozovoy, M. Dantus, “*Chirp effect on Coumarin 460 fluorescence by UV pulse shaping with a deformable mirror*”, (Submitted 2015)
136. A. Konar, V. V. Lozovoy, M. Dantus, “*Coherent Control of Stimulated Emission*”, (Submitted 2015)
135. M. Nairat, A. Konar, V. V. Lozovoy, W. F. Beck, G. J. Blanchard, M. Daunts, “*Ultrashort Pulses Control the Violation of Kasha’s Rule*” (Submitted 2015)
134. G. Rasskazov, A. Ryabtsev, V. V. Lozovoy, M. Dantus, “*Mitigating self-action processes with chirp or binary phase shaping*”, (Submitted 2015)
133. A. Konar, V. V. Lozovoy, M. Dantus, “*Electronic dephasing of molecules in solution measured by nonlinear spectral interferometry*,” ScienceJet 4 (2015).
132. V. V. Lozovoy, G. Rasskazov, A. Ryabtsev, M. Daunts “*Phase-only synthesis of ultrafast stretched square pulses*” Optics Express, 23, 27105-27112 (6 Oct 2015)
131. G. Rasskazov, V. V. Lozovoy, M. Daunts “*Spectral amplitude and phase noise characterization of titanium-sapphire lasers*” Optics Express 23, 23597-23602 (7 Sep 2015)
130. V. V. Lozovoy, G. Rasskazov, D. Pestov, M. Daunts, “*Quantifying noise in ultrafast laser sources and its effect on nonlinear applications*”, Optics Express, 23, 12037-120544 (4 May 2015)
129. G. J. Parker, D. E. Parker, B. Nie, V. V. Lozovoy, M. Dantus, “*LIBS and ablation threshold analysis using a megahertz Yb fiber laser oscillator*,” Spectrochimica Acta B, 107, 146-151 (1 May 2015).
128. R. Mittal, R. Glenn, I. Saytashev, V. V. Lozovoy, M. Daunts, “*Femtosecond Nanoplasmonic Dephasing of Individual Silver Nanoparticles and Small Clusters*” J. Physical Chemistry Letters, 6, 1638-1644 (8 April 2015)
127. M. Nairat, A. Konar, M. Kaniecki, V. V. Lozovoy, M. Dantus, “*Investigating the role of human serum albumin protein pocket on the excited state dynamics of indocyanine green using shaped femtosecond laser pulses*” Phys. Chem. Chem. Phys., 17, 5872-5877 (21 Jan 2015).
126. A. Konar, V.V. Lozovoy, and M. Dantus, “*Solvent Environment Revealed by Positively Chirped Pulses*,” Ultrafast Phenomena XIX, K. Yamanouchi et al., Eds. (Springer Proceedings in Physics 162, 2015).
125. A. Konar, Y. Shu, V. V. Lozovoy, J. E. Jackson, B. G. Levine, M. Dantus, “*Polyatomic Molecules under Intense Femtosecond Laser Irradiation*” J Physical Chemistry A, 118, 11433-11450 (11 December 2014).
124. G. Rasskazov, A. Ryabtsev, V. V. Lozovoy, M. Daunts “*Laser-induced dispersion control*”, Optics Letters, 39, 3208-3211 (June 1 2014)
123. D. Pestov, A. Ryabtsev, G. Rasskazov, V. V. Lozovoy, M. Dantus, “*Real-time single-shot measurement and correction of pulse phase and amplitude for ultrafast lasers*”, Optical Engineering, 53, Article Number: 051511 (May 2014)
122. B. Nie, G. Parker, V. V. Lozovoy, M. Daunts, “*Energy scaling of Yb fiber oscillator producing clusters of femtosecond pulses*”, Optical Engineering, 53, Article Number 051505 (May 2104)

121. A. Konar, V. V. Lozovoy, M. Dantus, “*Solvent Environment Revealed by Positively Chirped Pulses*”, *Journal Of Physical Chemistry Letters*, 5, 924-928, (Mar 6 2014)
120. A. Konar, V. V. Lozovoy, M. Dantus, “*Electronic dephasing of molecules in solution measured by nonlinear spectral inteferometry*” *J. Spectroscopy and Dynamics*, 4, 1-5 (Feb 7 2014).
119. A. Konar, J.-D. Shah, V. V. Lozovoy, M. Dantus, “*Optical response of fluorescent molecules studied by synthetic femtosecond laser pulses*”, XVIIIth International Conference on Ultrafast Phenomena 41, 07017 (2013).
118. G. Rasskazov, A. Ryabtsev, D. Pestov, V. V. Lozovoy, B. Nie, M. Dantus, “*Anomalous laser-induced group velocity dispersion in fused silica*” *Optics Express* 21, 17695-17694 (July 29 2013)
117. A. Konar, V. V. Lozovoy, M. Dantus, “*Solvation Stokes-Shift Dynamics Studied by Chirped Femtosecond Laser Pulses*”, *Journal of Physical Chemistry Letters* 3, 2458–2464 (September 6 2012)
116. I. Saytashev, S. N. Arkhipov, N. Winkler, K. Zuraski, V. V. Lozovoy, M. Dantus, “*Pulse duration and energy dependence of photodamage and lethality induced by femtosecond near infrared laser pulses in Drosophila melanogaster*”, *Journal of Photochemistry and Photobiology B: Biology* 115, 42–50 (July 3 2012)
115. A. Konar, J. Shah, V. V. Lozovoy, M. Dantus, “*Optical Response of Fluorescent Molecules Studied by Synthetic Femtosecond Laser Pulses*”, *Journal of Physical Chemistry Letters* 3, 1329–1335 (May 17 2012)
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112. P. J. Wrzesinski, D. Pestov, V. V. Lozovoy, B. Xu, M. Dantus, S. Roy, J. R. Gord, “*Binary Phase Shaping for Selective Single-Beam CARS Spectroscopy and Imaging of Gas-Phase Molecules*” (Postprint), Air Force Research Lab Wright-Patterson Afb Oh Propulsion Directorate/Turbine Engine Division, AFRL-RZ-WP-TP-2012-0200 (March 2012)
111. P. Devi, V. V. Lozovoy, M. Dantus, “*Measurement of group velocity dispersion of solvents using 2-cycle femtosecond pulses: Experiment and theory*” *AIP Advances* 1, 032166 (September 2011)
110. M. T. Bremer, P. J. Wrzesinski, N. Butcher, V. V. Lozovoy, M. Dantus, “*Highly selective standoff detection and imaging of trace chemicals in a complex background using single-beam coherent anti-Stokes Raman scattering*” *Applied Physics Letters* 99, 101109 (September 5 2011)
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88. V. V. Lozovoy, X. Zhu, T. C. Gunaratne, D. A. Harris, J. C. Shane, M. Dantus, "*Control of molecular fragmentation using shaped femtosecond pulses*"(FEATURE ARTICLE AND COVER), Journal Physical Chemistry A 112, 3789-3812 (May 1 2008)
87. H. Li, A. Harris, B. Xu, P. Wrzesinski, V. V. Lozovoy, M. Dantus, "*Coherent Mode-Selective Raman Excitation Towards Standoff Detection*", Optics Express 16, 5499-5504 (April 14 2008)
86. M. Dantus, V. V. Lozovoy, X. Zhu, T. Gunaratne, "*Multidimensional molecular identification by laser control mass spectrometry*", Proceedings of SPIE, 69540D (April 3 2008)
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81. V. V. Lozovoy, B. Xu, Y. Coello, M. Dantus, "*Direct measurement of spectral phase for ultrashort laser pulses*" Optics Express 16, 592-597 (January 21 2008)
80. V. V. Lozovoy, M. J. Kangas, T. C. Gunaratne, J. C. Shane, M. Dantus, "*Control of molecular fragmentation using binary phase shaped femtosecond laser pulses*," Ultrafast Phenomena XV, P. Corkum, D. Jonas, D. Miller, A. M. Weiner Eds. Springer-Verlag, Berlin (2007)
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77. Y. Coello, B. Xu, T. L. Miller, V. V. Lozovoy, M. Dantus, "*Group-velocity dispersion measurements of water, seawater, and ocular components using multiphoton intrapulse*

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