

Lyubov V Amitonova

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|-------------------|-----------------------|----------------|-----------------|
| 37 papers | 552 citations | 14 h-index | 22 g-index |
| 45 ext. papers | 713 ext. citations | 3.4 avg, IF | 4.04 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 37 | High-speed label-free multimode-fiber-based compressive imaging beyond the diffraction limit.. <i>Optics Express</i> , 2022 , 30, 10456-10469 | 3.3 | 3 |
| 36 | Focus quality in raster-scan imaging via a multimode fiber. <i>Applied Optics</i> , 2022 , 61, 4363 | 1.7 | 1 |
| 35 | Spatiotemporal focusing through a multimode fiber via time-domain wavefront shaping. <i>Optics Express</i> , 2021 , 29, 272-290 | 3.3 | 3 |
| 34 | Ultimate resolution limits of speckle-based compressive imaging. <i>Optics Express</i> , 2021 , 29, 3943-3955 | 3.3 | 3 |
| 33 | Comparison of round- and square-core fibers for sensing, imaging, and spectroscopy. <i>Optics Express</i> , 2021 , 29, 6523-6531 | 3.3 | 4 |
| 32 | Endo-microscopy beyond the Abbe and Nyquist limits. <i>Light: Science and Applications</i> , 2020 , 9, 81 | 16.7 | 22 |
| 31 | Quantum key establishment via a multimode fiber. <i>Optics Express</i> , 2020 , 28, 5965-5981 | 3.3 | 4 |
| 30 | Sensitivity analysis of Raman endoscopy with and without wavefront shaping. <i>Optics Express</i> , 2020 , 28, 3779-3788 | 3.3 | 0 |
| 29 | Blind focusing through strongly scattering media using wavefront shaping with nonlinear feedback. <i>Optics Express</i> , 2019 , 27, 11673-11688 | 3.3 | 16 |
| 28 | Compressive imaging through a multimode fiber. <i>Optics Letters</i> , 2018 , 43, 5427-5430 | 3 | 36 |
| 27 | Fourier conjugate adaptive optics for deep-tissue large field of view imaging. <i>Applied Optics</i> , 2018 , 57, 9803-9808 | 1.7 | |
| 26 | High-resolution wavefront shaping with a photonic crystal fiber for multimode fiber imaging. <i>Optics Letters</i> , 2016 , 41, 497-500 | 3 | 37 |
| 25 | Fiber-optic vectorial magnetic-field gradiometry by a spatiotemporal differential optical detection of magnetic resonance in nitrogen-vacancy centers in diamond. <i>Optics Letters</i> , 2016 , 41, 2057-60 | 3 | 7 |
| 24 | Aberrations of the point spread function of a multimode fiber due to partial mode excitation. <i>Optics Express</i> , 2016 , 24, 18501-12 | 3.3 | 13 |
| 23 | Neurophotonics: optical methods to study and control the brain. <i>Physics-Uspekhi</i> , 2015 , 58, 345-364 | 2.8 | 26 |
| 22 | Rotational memory effect of a multimode fiber. <i>Optics Express</i> , 2015 , 23, 20569-75 | 3.3 | 34 |
| 21 | Ultrahigh-contrast imaging by temporally modulated stimulated emission depletion. <i>Optics Letters</i> , 2015 , 40, 725-8 | 3 | 8 |

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| 20 | Electron spin manipulation and readout through an optical fiber. <i>Scientific Reports</i> , 2014 , 4, 5362 | 4.9 | 40 |
| 19 | Enhanced-locality fiber-optic two-photon-fluorescence live-brain interrogation. <i>Applied Physics Letters</i> , 2014 , 104, 083702 | 3.4 | 3 |
| 18 | Fiber-optic magnetic-field imaging. <i>Optics Letters</i> , 2014 , 39, 6954-7 | 3 | 27 |
| 17 | Fiber-optic magnetometry with randomly oriented spins. <i>Optics Letters</i> , 2014 , 39, 6755-8 | 3 | 17 |
| 16 | Dark-field third-harmonic imaging. <i>Applied Physics Letters</i> , 2013 , 103, 093701 | 3.4 | 13 |
| 15 | High-resolution wide-field Raman imaging through a fiber bundle. <i>Applied Physics Letters</i> , 2013 , 102, 161113 | 3.4 | 13 |
| 14 | Implantable fiber-optic interface for parallel multisite long-term optical dynamic brain interrogation in freely moving mice. <i>Scientific Reports</i> , 2013 , 3, 3265 | 4.9 | 32 |
| 13 | Air-guided photonic-crystal-fiber pulse-compression delivery of multimewatt femtosecond laser output for nonlinear-optical imaging and neurosurgery. <i>Applied Physics Letters</i> , 2012 , 100, 101104 | 3.4 | 11 |
| 12 | Multicolor in vivo brain imaging with a microscope-coupled fiber-bundle microprobe. <i>Applied Physics Letters</i> , 2012 , 101, 233702 | 3.4 | 14 |
| 11 | Fiber-optic Raman sensing of cell proliferation probes and molecular vibrations: Brain-imaging perspective. <i>Applied Physics Letters</i> , 2012 , 101, 113701 | 3.4 | 7 |
| 10 | Enhancing the locality of optical interrogation with photonic-crystal fibers. <i>Applied Physics Letters</i> , 2012 , 101, 021114 | 3.4 | 9 |
| 9 | Raman detection of cell proliferation probes with antiresonance-guiding hollow fibers. <i>Optics Letters</i> , 2012 , 37, 4642-4 | 3 | 14 |
| 8 | Nonlinear-optical brain anatomy by harmonic-generation and coherent Raman microscopy on a compact femtosecond laser platform. <i>Applied Physics Letters</i> , 2011 , 99, 231109 | 3.4 | 20 |
| 7 | Photonic-crystal-fiber platform for multicolor multilabel neurophotonic studies. <i>Applied Physics Letters</i> , 2011 , 98, 253706 | 3.4 | 20 |
| 6 | Ionization penalty in nonlinear Raman neuroimaging. <i>Optics Letters</i> , 2011 , 36, 508-10 | 3 | 28 |
| 5 | Nanoparticles in a nanowaveguide: Enhanced-functionality optical systems based on micro- and nanowaveguide structures doped with nanoparticles. <i>Nanotechnologies in Russia</i> , 2010 , 5, 266-270 | 0.6 | 3 |
| 4 | Fiber-optic probes for in vivo depth-resolved neuron-activity mapping. <i>Journal of Biophotonics</i> , 2010 , 3, 660-9 | 3.1 | 13 |
| 3 | Tailoring the soliton output of a photonic crystal fiber for enhanced two-photon excited luminescence response from fluorescent protein biomarkers and neuron activity reporters. <i>Optics Letters</i> , 2009 , 34, 3373-5 | 3 | 39 |

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|---|--|-----|---|
| 2 | Enhancement of guided-wave two-photon-excited luminescence response with a photonic-crystal fiber. <i>Applied Optics</i> , 2009 , 48, 5274-9 | 0.2 | 4 |
| 1 | Two-dimensional coherent superposition of blue-shifted signals from an array of highly nonlinear waveguiding wires in a photonic-crystal fiber. <i>Optics Express</i> , 2008 , 16, 11176-81 | 3.3 | 5 |