

# Svetlana G Lukishova

## List of Publications by Citations

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53  
papers

408  
citations

11  
h-index

19  
g-index

90  
ext. papers

510  
ext. citations

1.4  
avg, IF

3.36  
L-index

#	Paper	IF	Citations
53	Honeycomb pattern formation by laser-beam filamentation in atomic sodium vapor. <i>Physical Review Letters</i> , <b>2002</b> , 88, 113901	7.4	44
52	Enhanced laser performance of cholesteric liquid crystals doped with oligofluorene dye. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2008</b> , 25, 1496	1.7	43
51	Resonance in quantum dot fluorescence in a photonic bandgap liquid crystal host. <i>Optics Letters</i> , <b>2012</b> , 37, 1259-61	3	35
50	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2003</b> , 9, 1512-1518	3.8	27
49	Dye-doped cholesteric-liquid-crystal room-temperature single-photon source. <i>Journal of Modern Optics</i> , <b>2004</b> , 51, 1535-1547	1.1	26
48	Organic photonic bandgap microcavities doped with semiconductor nanocrystals for room-temperature on-demand single-photon sources. <i>Journal of Modern Optics</i> , <b>2009</b> , 56, 167-174	1.1	21
47	Room temperature source of single photons of definite polarization. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 417-429	1.1	21
46	Room-temperature single photon sources with definite circular and linear polarizations. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2010</b> , 108, 417-424	0.7	20
45	Robust organic lasers comprising glassy-cholesteric pentafluorene doped with a red-emitting oligofluorene. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 041111	3.4	20
44	NONLINEAR OPTICAL RESPONSE OF CYANOBIPHENYL LIQUID CRYSTALS TO HIGH-POWER, NANOSECOND LASER RADIATION. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2000</b> , 09, 365-411	0.8	20
43	Liquid Crystals Under Two Extremes: (1) High-Power Laser Irradiation, and (2) Single-Photon Level. <i>Molecular Crystals and Liquid Crystals</i> , <b>2012</b> , 559, 127-157	0.5	18
42	Time-domain measurements of reflection delay in frustrated total internal reflection. <i>Physical Review Letters</i> , <b>2013</b> , 111, 030404	7.4	11
41	High-power laser beam shaping using apodized apertures. <i>Laser and Particle Beams</i> , <b>1990</b> , 8, 349-360	0.9	7
40	Beam Shaping and Suppression of Self-focusing in High-Peak-Power Nd:Glass Laser Systems. <i>Topics in Applied Physics</i> , <b>2009</b> , 191-229	0.5	6
39	Single-photon experiments with liquid crystals for quantum science and quantum engineering applications. <i>Liquid Crystals Reviews</i> , <b>2014</b> , 2, 111-129	2.8	5
38	Valentin A. Fabrikant: negative absorption, his 1951 patent application for amplification of electromagnetic radiation (ultraviolet, visible, infrared and radio spectral regions) and his experiments. <i>Journal of the European Optical Society-Rapid Publications</i> , <b>2010</b> , 5,	2.5	5
37	Behaviour of nonlinear liquid-crystal mirrors, made of a nonabsorbing cholesteric, in the cavity of an Nd:YAG laser operating in the cw regime and at a high pulse repetition frequency. <i>Quantum Electronics</i> , <b>1996</b> , 26, 796-798	1.8	5

36	Nanosecond Z-Scan Measurements of Optical Nonlinearities in 5CB and CB15 at 532 Nm. <i>Molecular Crystals and Liquid Crystals</i> , <b>1999</b> , 331, 609-618		5
35	Plasmonic nanoantennas with liquid crystals for nanocrystal fluorescence enhancement and polarization selectivity of classical and quantum light sources. <i>Molecular Crystals and Liquid Crystals</i> , <b>2017</b> , 657, 173-183	0.5	4
34	Single photon sources for secure quantum communication <b>2013</b> ,		4
33	Techniques for fabrication of multilayer dielectric graded-reflectivity mirrors and their use enhancement of the brightness of the radiation from a multimode Nd <sup>3+</sup> :YAG laser with a stable cavity. <i>Quantum Electronics</i> , <b>1996</b> , 26, 1014-1017	1.8	4
32	Far-Field Patterns from Dye-Doped Planar-Aligned Nematic Liquid Crystals Under Nanosecond Laser Irradiation. <i>Molecular Crystals and Liquid Crystals</i> , <b>2006</b> , 453, 393-401	0.5	4
31	CUMULATIVE BIREFRINGENCE EFFECTS OF NANOSECOND LASER PULSES IN DYE-DOPED PLANAR NEMATIC LIQUID CRYSTAL LAYERS. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2002</b> , 11, 341-350 <sup>0.8</sup>		4
30	Cumulative self-phase modulation in planar nematics driven by 532-nm nanosecond laser pulses <b>1999</b> ,		4
29	Nanophotonic Advances for Room-Temperature Single-Photon Sources. <i>Springer Series in Optical Sciences</i> , <b>2019</b> , 103-178	0.5	3
28	Quantum Dot Fluorescence in Photonic Bandgap Glassy Cholesteric Liquid Crystal Structures: Microcavity Resonance under CW-Excitation, Antibunching and Decay Time. <i>Molecular Crystals and Liquid Crystals</i> , <b>2014</b> , 595, 98-105	0.5	3
27	Simulating Quantum-Mechanical Barrier Tunneling Phenomena with a Nematic-Liquid-Crystal-Filled Double-Prism Structure. <i>Molecular Crystals and Liquid Crystals</i> , <b>2014</b> , 595, 136-143	0.5	3
26	Single-Photon Source for Quantum Information Based on Single Dye Molecule Fluorescence in Liquid Crystal Host. <i>Molecular Crystals and Liquid Crystals</i> , <b>2006</b> , 454, 1/[403]-14/[416]	0.5	3
25	Nonlinear Optics: Honeycomb Pattern Formation by Laser-Beam Filamentation in Atomic Sodium Vapor. <i>Optics and Photonics News</i> , <b>2002</b> , 13, 29	1.9	3
24	Apodized apertures for IR lasers. <i>Infrared Physics</i> , <b>1989</b> , 29, 285-289		3
23	Quantum optics and nano-optics teaching laboratory for the undergraduate curriculum: teaching quantum mechanics and nano-physics with photon counting instrumentation <b>2017</b> ,		3
22	Near-Field Optical Microscopy of Defects in Cholesteric Oligomeric Liquid Crystal Films. <i>Molecular Crystals and Liquid Crystals</i> , <b>2006</b> , 454, 15/[417]-21/[423]	0.5	2
21	Investigation of a soft aperture formed by photooxidation of a rare-earth impurity in fluorite and used as an intracavity component in a YAG : Er <sup>3+</sup> -laser. <i>Quantum Electronics</i> , <b>1994</b> , 24, 117-119	1.8	2
20	Soft Apertures To Shape High-Power Laser Beams <b>1989</b> ,		2
19	Dielectric films deposition with cross-section variable thickness for amplitude filters on the basis of frustrated total internal reflection <b>1990</b> ,		2

18	The First Nonlinear Optical Experiment of 1926, Measuring Sensitivity Threshold of the Human Eye to Feeble Light (1933) and Statistical Structure of Feeble-Light Interference by the Human Eye (Sergei Ivanovich Vavilov). <i>Springer Series in Optical Sciences</i> , <b>2019</b> , 481-542	0.5	1
17	Nanocrystal fluorescence in photonic bandgap microcavities and plasmonic nanoantennas. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 594, 012005	0.3	1
16	Resonance in quantum dot fluorescence on a band-edge of a 1-D photonic bandgap cholesteric structure under cw-laser excitation <b>2013</b> ,		1
15	Room-temperature single-photon sources with definite circular and linear polarizations based on single-emitter fluorescence in liquid crystal hosts. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 414, 012006 <sup>3</sup>	0.3	1
14	Chiral photonic bandgap microcavities doped with single colloidal semiconductor quantum dots <b>2010</b> ,		1
13	Reflective nonlinearity of nonabsorbing cholesteric liquid crystal mirrors driven by pulsed high-repetition-rate laser radiation <b>1999</b> , 3800, 164		1
12	Nonlinear optical response of liquid crystals to nanosecond laser radiation <b>1999</b> ,		1
11	Improving the beam quality of solid-state systems using both outside and inside cavity devices with variable optical characteristics along the cross section. <i>Journal of Soviet Laser Research</i> , <b>1991</b> , 12, 295-307		1
10	Launching partnership in optics and photonics education between University of Rochester and Moscow Engineering Physics Institute NRNU MEPhI <b>2017</b> ,		1
9	Bowtie Plasmonic Nanoantennas with Nanocrystals: Photon Antibunching, Polarization Selectivity and Tunability <b>2018</b> ,		1
8	Nanophotonic Advances for Room-Temperature Single-Photon Sources <b>2019</b> ,		1
7	Dye-doped cholesteric-liquid-crystal room-temperature single-photon source		1
6	Measuring Sensitivity Threshold of the Human Eye to Feeble Light (Selig Hecht). <i>Springer Series in Optical Sciences</i> , <b>2019</b> , 555-586	0.5	
5	First Observation of Photon Correlations (Bunching) with Beamsplitter and Photomultipliers (Robert Hanbury Brown and Richard Quintin Twiss). <i>Springer Series in Optical Sciences</i> , <b>2019</b> , 605-619	0.5	
4	Nonlinear and quantum optics with liquid crystals. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 497, 012008 <sup>3</sup>		1
3	Apodized Apertures For Infrared And Visible High-Power Lasers <b>1989</b> , 0965, 25		
2	Beam Shaping Of Powerful Lasers <b>1989</b> , 1031, 506		
1	Icons of Russian Physics: From the Lebedev Scientific School in Physics to the Lebedev Physical Institute. <i>Contemporary Physics</i> , 1-13		3.3

