Svetlana G Lukishova

List of Publications by Year
in descending order

90	561	759233 12	677142 22
papers	citations	h-index	g-index

90	90	90	287
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced laser performance of cholesteric liquid crystals doped with oligofluorene dye. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1496.	2.1	52
2	Honeycomb Pattern Formation by Laser-Beam Filamentation in Atomic Sodium Vapor. Physical Review Letters, 2002, 88, 113901.	7.8	51
3	Resonance in quantum dot fluorescence in a photonic bandgap liquid crystal host. Optics Letters, 2012, 37, 1259.	3.3	43
4	Room temperature single-photon source: single-dye molecule fluorescence in liquid crystal host. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 1512-1518.	2.9	41
5	Dye-doped cholesteric-liquid-crystal room-temperature single-photon source. Journal of Modern Optics, 2004, 51, 1535-1547.	1.3	35
6	Organic photonic bandgap microcavities doped with semiconductor nanocrystals for room-temperature on-demand single-photon sources. Journal of Modern Optics, 2009, 56, 167-174.	1.3	28
7	Room temperature source of single photons of definite polarization. Journal of Modern Optics, 2007, 54, 417-429.	1.3	27
8	NONLINEAR OPTICAL RESPONSE OF CYANOBIPHENYL LIQUID CRYSTALS TO HIGH-POWER, NANOSECOND LASER RADIATION. Journal of Nonlinear Optical Physics and Materials, 2000, 09, 365-411.	1.8	26
9	Room-temperature single photon sources with definite circular and linear polarizations. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 108, 417-424.	0.6	26
10	Robust organic lasers comprising glassy-cholesteric pentafluorene doped with a red-emitting oligofluorene. Applied Physics Letters, 2009, 94, 041111.	3.3	23
11	Liquid Crystals Under Two Extremes: (1) High-Power Laser Irradiation, and (2) Single-Photon Level. Molecular Crystals and Liquid Crystals, 2012, 559, 127-157.	0.9	23
12	Time-Domain Measurements of Reflection Delay in Frustrated Total Internal Reflection. Physical Review Letters, 2013, 111, 030404.	7.8	16
13	High-power laser beam shaping using apodized apertures. Laser and Particle Beams, 1990, 8, 349-360.	1.0	11
14	Single-Photon Source for Quantum Information Based on Single Dye Molecule Fluorescence in Liquid Crystal Host. Molecular Crystals and Liquid Crystals, 2006, 454, 1/[403]-14/[416].	0.9	10
15	Valentin A. Fabrikant: negative absorption, his 1951 patent application for amplification of electromagnetic radiation (ultraviolet, visible, infrared and radio spectral regions) and his experiments. Journal of the European Optical Society-Rapid Publications, 0, 5, .	1.9	10
16	Nanophotonic Advances for Room-Temperature Single-Photon Sources. Springer Series in Optical Sciences, 2019, , 103-178.	0.7	10
17	Single-photon experiments with liquid crystals for quantum science and quantum engineering applications. Liquid Crystals Reviews, 2014, 2, 111-129.	4.1	9
18	Beam Shaping and Suppression of Self-focusing in High-Peak-Power Nd:Glass Laser Systems. Topics in Applied Physics, 2009, , 191-229.	0.8	8

#	Article	IF	Citations
19	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. Quantum Electronics, 1996, 26, 796-798.	1.0	7
20	Single photon sources for secure quantum communication. , 2013, , .		7
21	Quantum optics and nano-optics teaching laboratory for the undergraduate curriculum: teaching quantum mechanics and nano-physics with photon counting instrumentation. , 2017, , .		7
22	Simulating Quantum-Mechanical Barrier Tunneling Phenomena with a Nematic-Liquid-Crystal-Filled Double-Prism Structure. Molecular Crystals and Liquid Crystals, 2014, 595, 136-143.	0.9	6
23	Plasmonic nanoantennas with liquid crystals for nanocrystal fluorescence enhancement and polarization selectivity of classical and quantum light sources. Molecular Crystals and Liquid Crystals, 2017, 657, 173-183.	0.9	6
24	Nanosecond Z-Scan Measurements of Optical Nonlinearities in 5CB and CB15 at 532 Nm. Molecular Crystals and Liquid Crystals, 1999, 331, 609-618.	0.3	5
25	Near-Field Optical Microscopy of Defects in Cholesteric Oligomeric Liquid Crystal Films. Molecular Crystals and Liquid Crystals, 2006, 454, 15/[417]-21/[423].	0.9	5
26	Far-Field Patterns from Dye-Doped Planar-Aligned Nematic Liquid Crystals Under Nanosecond Laser Irradiation. Molecular Crystals and Liquid Crystals, 2006, 453, 393-401.	0.9	5
27	Quantum Dot Fluorescence in Photonic Bandgap Glassy Cholesteric Liquid Crystal Structures: Microcavity Resonance under CW-Excitation, Antibunching and Decay Time. Molecular Crystals and Liquid Crystals, 2014, 595, 98-105.	0.9	5
28	Dielectric films deposition with cross-section variable thickness for amplitude filters on the basis of frustrated total internal reflection. , 1990, , .		4
29	Techniques for fabrication of multilayer dielectric graded-reflectivity mirrors and their use enhancement of the brightness of the radiation from a multimode Nd3+:YAG laser with a stable cavity. Quantum Electronics, 1996, 26, 1014-1017.	1.0	4
30	<title>Cumulative self-phase modulation in planar nematics driven by 532-nm nanosecond laser pulses</title>. , 1999, , .		4
31	CUMULATIVE BIREFRINGENCE EFFECTS OF NANOSECOND LASER PULSES IN DYE-DOPED PLANAR NEMATIC LIQUID CRYSTAL LAYERS. Journal of Nonlinear Optical Physics and Materials, 2002, 11, 341-350.	1.8	4
32	Undergraduate program in nanoscience and nanoengineering: five years after the National Science Foundation grant including two pandemic years. Optical Engineering, 2022, 61, .	1.0	4
33	Apodized apertures for IR lasers. Infrared Physics, 1989, 29, 285-289.	0.5	3
34	Soft Apertures To Shape High-Power Laser Beams. Proceedings of SPIE, 1989, , .	0.8	3
35	Nonlinear Optics: Honeycomb Pattern Formation by Laser-Beam Filamentation in Atomic Sodium Vapor. Optics and Photonics News, 2002, 13, 29.	0.5	3
36	<title>Photochemical changes of rare-earth valent state in gamma-irradiated CaF<formula><inf><roman>2</roman></inf></formula>:Pr crystals by the excimer laser radiation: investigation and application</title>. , 1991, , .		2

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37	Investigation of a soft aperture formed by photooxidation of a rare-earth impurity in fluorite and used as an intracavity component in a YAG : Er3+laser. Quantum Electronics, 1994, 24, 117-119.	1.0	2
38	Room-temperature single-photon sources with definite circular and linear polarizations based on single-emitter fluorescence in liquid crystal hosts. Journal of Physics: Conference Series, 2013, 414, 012006.	0.4	2
39	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) Tj ETQq1 1 0.784314 rgBT /Overlo	0.4	2
40	Launching partnership in optics and photonics education between University of Rochester and Moscow Engineering Physics Institute NRNU MEPhI. , 2017, , .		2
41	Plasmonic Bowtie Nanoantennas with Nanocrystal Quantum Dots for Single-Photon Source Applications. , 2016, , .		2
42	Development of multidisciplinary nanotechnology undergraduate education program at the University of Rochester Integrated Nanosystems Center. , 2017, , .		2
43	Laser system with a regenerative amplifier for generation of trains of pulses of variable amplitude. Soviet Journal of Quantum Electronics, 1975, 4, 832-834.	0.1	1
44	Improving the beam quality of solid-state systems using both outside and inside cavity devices with variable optical characteristics along the cross section. Journal of Soviet Laser Research, 1991, 12, 295-307.	0.2	1
45	<title>Reflective nonlinearity of nonabsorbing cholesteric liquid crystal mirrors driven by pulsed high-repetition-rate laser radiation</title>. , 1999, 3800, 164.		1
46	<title>Nonlinear absorption and refraction of linearly polarized nanosecond laser radiation by liquid crystals in the transient regime</title>. , 1999, , .		1
47	<title>Nonlinear optical response of liquid crystals to nanosecond laser radiation</title>. , 1999, , .		1
48	Chiral photonic bandgap microcavities doped with single colloidal semiconductor quantum dots. , 2010, , .		1
49	Resonance in quantum dot fluorescence on a band-edge of a 1-D photonic bandgap cholesteric structure under cw-laser excitation. Proceedings of SPIE, 2013, , .	0.8	1
50	Nanocrystal fluorescence in photonic bandgap microcavities and plasmonic nanoantennas. Journal of Physics: Conference Series, 2015, 594, 012005.	0.4	1
51	A lesson from the history of scientific discovery of measuring the pressure of light. Europhysics News, 2019, 50, 15-16.	0.3	1
52	Measuring Sensitivity Threshold of the Human Eye to Feeble Light (Selig Hecht). Springer Series in Optical Sciences, 2019, , 555-586.	0.7	1
53	The First Paper on Experimental Observation of Interference Fringes with Feeble Light (Sir Geoffrey) Tj ETQq1 1 0.784314 rgBT /Overlo	0.7	1
54	Dye-doped cholesteric-liquid-crystal room-temperature single-photon source. Journal of Modern Optics, 2004, 51, 1535-1547.	1.3	1

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55	Bowtie Plasmonic Nanoantennas with Nanocrystals: Photon Antibunching, Polarization Selectivity and Tunability. , 2018, , .		1
56	Research summer camp in photonics. , 2017, , .		1
57	Nanophotonic Advances for Room-Temperature Single-Photon Sources. , 2019, , .		1
58	13 years of Quantum Optics, Quantum Information and Nano-Optics Teaching Laboratory Facility at the Institute of Optics, University of Rochester. , 2019, , .		1
59	Intensive evaporation of germanium and silicon by millisecond laser radiation pulses. Soviet Journal of Quantum Electronics, 1974, 4, 248-249.	0.1	0
60	Apodized Apertures For Infrared And Visible High-Power Lasers. Proceedings of SPIE, 1989, 0965, 25.	0.8	0
61	Beam Shaping Of Powerful Lasers. , 1989, 1031, 506.		0
62	Brightness enhancement of solid state laser oscillators in single-mode lasing using novel inside-resonator optical elements with radially variable transmission. , 1991, , .		0
63	Cholesteric Liquid Crystal Laser Using an Oligofluorene for High Performance and Spectral Purity. , 2006, , OPTuD16.		0
64	Feedback-free single-beam pattern formation by nanosecond pulses in dye-doped liquid crystals. , 2006, , .		0
65	Deterministically polarized, room temperature source of single photons based on single-emitter fluorescence in aligned liquid crystal hosts. , 2006, , .		0
66	Single Photon Source on Demand Based on Single-Colloidal-Quantum-Dot Fluorescence in Chiral Photonic Bandgap Liquid Crystal Hosts. , 2007, , .		0
67	Single photon source on demand based on single-colloidal-quantum-dot fluorescence in chiral photonic bandgap liquid crystal hosts. , 2007, , .		0
68	Room-Temperature Single Photon Sources with Fluorescent Emitters in Liquid Crystal Hosts. , 2007, , .		0
69	Teaching Quantum Mechanics with Photon Counting Instrumentation. , 2008, , .		0
70	Room-temperature single photon sources with definite circular and linear polarizations based on single-emitter fluorescence in liquid crystal hosts. Proceedings of SPIE, 2010, , .	0.8	0
71	Room-Temperature Single Photon Source: Nanocrystals in Photonic Bandgap Microcavities. , 2013, , .		0
72	Liquid crystals under high-power, nanosecond laser irradiation. Proceedings of SPIE, 2013, , .	0.8	0

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73	Nonlinear and quantum optics with liquid crystals. Journal of Physics: Conference Series, 2014, 497, 012008.	0.4	0
74	Single-photon experiments with liquid crystals for quantum science and quantum engineering applications. , 2015, , .		0
75	Nonlinear Optical Experiment of 1941 (Gilbert Newton Lewis). Springer Series in Optical Sciences, 2019, , 543-549.	0.7	0
76	First Observation of Photon Correlations (Bunching) with Beamsplitter and Photomultipliers (Robert) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	0
77	Icons of Russian Physics: From the Lebedev Scientific School in Physics to the Lebedev Physical Institute. Contemporary Physics, 2021, 62, 1-13.	1.8	0
78	Quantum Optics and Quantum Information Teaching Laboratory at the Institute of Optics, University of Rochester. , 2005, , .		0
79	Oligofluorene as a New High-Performance Dye for Cholesteric Liquid Crystal Lasers. , 2006, , .		0
80	Organic Photonic Crystal Microcavities for a Room-Temperature Single-Photon Source on Demand. , 2007, , .		0
81	Quantum Optics Teaching Laboratory. , 2007, , .		0
82	Teaching Experiments on Photon Quantum Mechanics. , 2008, , .		0
83	Polarized Single Photons from Colloidal Quantum Dots in Chiral Microcavities at Room Temperature. , 2009, , .		0
84	Single-Photon Tunneling Delay in a Nematic Liquid-Crystal Frustrated-Total-Internal-Reflection Structure. , 2011, , .		0
85	Polarization Dependent Single-Photon Tunneling through a Chiral Photonic Bandgap Liquid Crystal Structure. , 2011, , .		0
86	Single-Photon Measurement of the Hartman Effect in Frustrated Total Internal Reflection. , 2011, , .		0
87	Glassy Chiral Photonic Bandgap Structures Doped with Quantum Dots for Single-Photon Source Applications. , 2012, , .		0
88	Laser-induced, ultrabright spontaneous photoluminescence spikes from colloidal silver nanocubes for patch nanoantennas. , 2020, , .		0
89	Ultrabright photoluminescence spikes from 100-nm colloidal silver nanocubes for patch nanoantennas. , 2020, , .		0
90	Room-Temperature Single-Photon Sources: State of the Art. , 2020, , .		0