

Svitlana Bugaychuk

List of Publications by Year in descending order

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77
papers

264
citations

933264

10
h-index

1058333

14
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78
all docs

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docs citations

78
times ranked

146
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast dynamic holographic recording based on conductive ionic metal-alkanoate liquid crystals and smectic glasses. <i>Optics Letters</i> , 2006, 31, 235.	1.7	30
2	Electrical conductivity of lyotropic and thermotropic ionic liquid crystals consisting of metal alkanoates. <i>Liquid Crystals</i> , 2007, 34, 599-603.	0.9	22
3	Nonuniform dynamic gratings in photorefractive media with nonlocal response. <i>Physical Review E</i> , 2003, 67, 046603.	0.8	15
4	Dynamic grating recording in lyotropic ionic smectics of metal alkanoates doped with electrochromic impurities. <i>Optical Materials</i> , 2009, 31, 1109-1114.	1.7	15
5	Monodispersity and ordering of semiconductor quantum dots synthesised in ionic liquid crystalline phase of cadmium alkanoates. <i>Liquid Crystals</i> , 2013, 40, 980-988.	0.9	12
6	Steady state and dynamic gratings in photorefractive four-wave mixing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998, 15, 2107.	0.9	11
7	Nonlinear amplification of coherent waves in media with soliton-type refractive index pattern. <i>Physical Review E</i> , 2012, 86, 026603.	0.8	11
8	Enhanced Nonlinear Optical Effect in Hybrid Liquid Crystal Cells Based on Photonic Crystal. <i>Nanoscale Research Letters</i> , 2017, 12, 449.	3.1	11
9	Nonlinear optical properties of composites based on conductive metal-alkanoate liquid crystals. <i>Opto-electronics Review</i> , 2006, 14, .	2.4	10
10	Ginzburg-Landau equation for dynamical four-wave mixing in gain nonlinear media with relaxation. <i>Physical Review E</i> , 2009, 80, 066603.	0.8	10
11	Fast Nonlinear Optical Mechanisms in Bi-Layered Cells Composed by Lyotropic Ionic Liquid Crystals with Dye and Viologen Films. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 508, 296/[658]-308/[670].	0.4	9
12	Structural characteristics of different types of nanoparticles synthesised in mesomorphic metal alkanoates. <i>Liquid Crystals</i> , 2017, 44, 1269-1276.	0.9	9
13	Photoconductivity of ionic thermotropic liquid crystal with semiconductor nanoparticles. <i>Journal of Molecular Liquids</i> , 2018, 267, 406-410.	2.3	9
14	Dynamic Holography in Bacteriorhodopsin/Gelatin Films: Effects of Lightâ€™Dark Adaptation at Different Humidity^{â€‹}. <i>Photochemistry and Photobiology</i> , 2007, 83, 403-408.	1.3	8
15	Ability of dynamic holography in self-assembled hybrid nanostructured silica films for all-optical switching and multiplexing. <i>Nanoscale Research Letters</i> , 2015, 10, 196.	3.1	6
16	Faster nonlinear optical response in liquid crystal cells containing gold nano-island films. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4965-4970.	1.6	6
17	Title is missing!. <i>Ukrainian Journal of Physical Optics</i> , 2002, 3, 27-34.	9.7	6
18	Optical linear and nonlinear properties of hybrid liquid crystal cells containing gold island films. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 696, 93-100.	0.4	5

#	ARTICLE	IF	CITATIONS
19	Multiplexing and Switching of Laser Beams Based on Cross-Correlation Interaction of Periodic Fields. Ukrainian Journal of Physics, 2016, 61, 301-308.	0.1	5
20	Probing Optical Nonlinearities of Unconventional Glass Nanocomposites Made of Ionic Liquid Crystals and Bimetallic Nanoparticles. Nanomaterials, 2022, 12, 924.	1.9	5
21	Spatial structure of holographic gratings in photorefractive crystals with a nonlocal response. Quantum Electronics, 1997, 27, 727-731.	0.3	4
22	Novel nanocomposite materials based on mesomorphic glasses of metal alkanoates: structure and nonlinear optical properties. High Energy Chemistry, 2009, 43, 532-535.	0.2	4
23	Fast nonlinear optical mechanism of photoconversion in systems of lyotropic ionic liquid crystals – viologen impurities. Molecular Physics, 2011, 109, 1567-1574.	0.8	4
24	Nonlinear all-optical light valves fabricated on mesoscopic Ti-, Si-substrates. Journal of Molecular Liquids, 2018, 267, 34-37.	2.3	3
25	Optical nonlinearity in nanocomposites based on metal alkanoates with hybrid metal/semiconductor and semiconductor/semiconductor nanoparticles. Journal of Molecular Liquids, 2020, 298, 112042.	2.3	3
26	Optical control of the four-wave mixing dynamic grating structure in photorefractive media. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 451-456.	1.4	2
27	Wave-mixing solitons in ferroelectric crystals. Radiation Effects and Defects in Solids, 2002, 157, 995-1001.	0.4	2
28	Transition from Backscattering Speckles to Phase Conjugation in LiNbO ₃ :Fe. Chinese Physics Letters, 2006, 23, 2101-2104.	1.3	2
29	Explicit solutions of the four-wave mixing model. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 192003.	0.7	2
30	Formation of complex structure of laser fields for the radiation effect on impurities in nano-optoelectronics. , 2014, , .		2
31	Influence of semiconductor and metal nanoparticles on the dielectric properties of ionic matrix cadmium octanoate. Nanoscale Research Letters, 2015, 10, 66.	3.1	2
32	Squeezing of laser pulses in nonlinear-optical LC cell. Photonics Letters of Poland, 2018, 10, 112.	0.2	2
33	Effect asymmetry of diffraction efficiency in LC cells with different command surfaces. Molecular Crystals and Liquid Crystals, 2022, 748, 29-35.	0.4	2
34	Dynamic grating structure investigation. , 1999, 3904, 201.		1
35	<title>Holographic associative processor using photorefractive crystals</title>. , 2003, , .		1
36	<title>Holography recording properties of new dye-doped ionic liquid crystals for use in optical switch applications</title>. , 2004, , .		1

#	ARTICLE	IF	CITATIONS
37	Novel holographic composites based on ionic smectic liquid crystals and glasses of metal alkanoates. Proceedings of SPIE, 2007, , .	0.8	1
38	Novel materials based on metal-alkanoate liquid crystals and smectic glasses for impulse dynamic holographic applications. , 2008, , .		1
39	Nonlinear Optics of Electrochromic and Photosensitive Cells of Ionic Liquid Crystals and Mesomorphic Glasses. Molecular Crystals and Liquid Crystals, 2011, 541, 142/[380]-151/[389].	0.4	1
40	Electrically controlled dynamics of energy transfer in pure nematic liquid crystals. , 2013, , .		1
41	Angular spectra of phase diffraction gratings illuminated by interference field. , 2013, , .		1
42	Synthesis of dynamic phase profile by the correlation technique for spatial control of optical beams in multiplexing and switching. Proceedings of SPIE, 2015, , .	0.8	1
43	Single evolution equation in a light-matter pairing system. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 125201.	0.7	1
44	Dynamic Holography for Study of Nonlinear Optical Processes in Biological Photoreceptor Molecule. , 2005, , 431-450.		1
45	Soliton Profile of the Dynamic Grating Amplitude and its Alteration by Photorefractive Wave Mixing. , 2003, , .		1
46	Detection of Small Displacements Using of Optical Diffractive Correlator. , 2020, , .		1
47	Recording of dynamic and permanent gratings in composite LC cells containing gold nano-island films. Molecular Crystals and Liquid Crystals, 2023, 750, 23-31.	0.4	1
48	Kinetics of dynamic refractive index gratings in nematic liquid crystals in spatially inhomogeneous electric fields. Molecular Crystals and Liquid Crystals, 2022, 747, 64-71.	0.4	1
49	<title>Recording of various grating amplitude shapes during four-wave mixing in strong-response PRC</title>. , 1998, , .		0
50	<title>Optical control of the FWM dynamic grating structure in PRC with nonlocal response</title>. , 1998, 3486, 108.		0
51	<title>New holographic scheme for multiplex image storage in photorefractive crystals</title>. , 2001, 4418, 200.		0
52	How defects make holographic storage media tick. Radiation Effects and Defects in Solids, 2002, 157, 1133-1137.	0.4	0
53	Soliton-like dynamic gratings in photorefractive four-wave mixing. , 0, , .		0
54	<title>Nonlinear optical and electro-optical properties of ionic lyotropic smectics with different impurities</title>. , 2004, , .		0

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55	Holographic properties of ionic smectic glasses of thermotropic liquid crystals. Proceedings of SPIE, 2005, , .	0.8	0
56	Holographic properties of ionic lyotropic liquid crystals doped by electrochromic admixture of viologen. Proceedings of SPIE, 2005, , .	0.8	0
57	Optical topographic technique to material characterization of photorefractive crystals. Proceedings of SPIE, 2005, , .	0.8	0
58	Study of Structural Transition in Low-Temperature Ferroelectric Liquid Crystal Mixture. Molecular Crystals and Liquid Crystals, 2005, 439, 179/[2045]-187/[2053].	0.4	0
59	Nonlinear effects in ionic smectics with nano-sized dye impurities. Proceedings of SPIE, 2005, , .	0.8	0
60	Interaction and fusion of light pulses at the dynamical four-wave mixing in photorefractive media. , 2008, , .		0
61	Localized states and oscillations induced by coherent interaction of waves in nonlocal media. , 2010, , .		0
62	Nonlinear optical materials based on ionic liquid crystals and anisotropic glasses of metal alkanoate. , 2011, , .		0
63	Dark dissipative soliton of nonlinear wave interaction. , 2011, , .		0
64	Photonics of new metal-alkanoate composites contained semiconductor nanoparticles. , 2013, , .		0
65	Fabrication of controllable holographic gratings to manage the energy transfer. , 2013, , .		0
66	Nonlinear-optical liquid crystal cells based on microstructured substrates. , 2016, , .		0
67	Bragg Fibers with Soliton-like Grating Profiles. MATEC Web of Conferences, 2016, 83, 08002.	0.1	0
68	Beam shaping with the desired intensity profiles based on the correlation technique. , 2016, , .		0
69	Extreme events induced by self-action of laser beams in dynamic nonlinear liquid crystal cells. Journal of Physics: Conference Series, 2017, 867, 012007.	0.3	0
70	Detection of Transverse Displacements of Microstructures in Nano-Scale Range by Optical Cross-Correlation Technique. , 2018, , .		0
71	Amplifier Diodes Designed in Fiber Bragg Gratings. , 2019, , .		0
72	Method of Controlling the Micro-and Nanoscale Displacements Based on Optical Correlation. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
73	Fast nonlinear optical materials based on ionic liquid crystals and glasses of metal alkanoates. , 2010, , .		0
74	Experimental Observation of Auto-Oscillations in Nonlinear Optical Correlator. , 2014, , .		0
75	Formation of Auto-Oscillation under Continuous Laser Illumination in Optical Nonlinear Dissipative System. , 2014, , .		0
76	An effective holographic amplifier exploiting consistent periodic structures. Applied Physics B: Lasers and Optics, 2022, 128, 1.	1.1	0
77	Photovoltaic properties of cd-based ionic liquid crystals with semiconductor nanoparticles. Molecular Crystals and Liquid Crystals, 0, , 1-10.	0.4	0