Alexander Zolot'ko

List of Publications by Year
in descending order

46	341	933447 10	940533 16
papers	citations	h-index	g-index

47	47	47	141
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sign-alternating optical reorientation in nematic liquid crystals with low-molar-mass and polymeric absorbing bis-azobenzene dopants. Journal of Molecular Liquids, 2021, 339, 117141.	4.9	2
2	ABERRATIONAL PATTERN DURING THE SELF-ACTION OF THE Ð¢Ð•Ðœ01 MODE OF LIGHT RADIATION IN NEMATIC LIQUID CRYSTALS. Bulletin of the Lebedev Physics Institute, 2020, 47, 149-155.	0.6	1
3	Phase Structure Recording in a Nematic Side-Chain Liquid-Crystalline Polymer. Polymers, 2020, 12, 356.	4.5	4
4	Optical FrÃ©edericksz transition and director field structure recording in dye-doped nematic liquid-crystalline polymer. Journal of Molecular Liquids, 2019, 276, 275-281.	4.9	4
5	Dynamics of orientational nonlinear optical response in azobenzene-dye-doped liquid-crystalline polymers. Molecular Crystals and Liquid Crystals, 2017, 647, 100-106.	0.9	5
6	Highly efficient optical director reorientation of liquid-crystalline polymer induced by dye additives. Physical Review E, 2017, 95, 052705.	2.1	7
7	On the formation of vortex light beams at the surface photorefractive effect in NLC. Bulletin of the Lebedev Physics Institute, 2016, 43, 340-344.	0.6	2
8	Light-induced orientation transition in nematic liquid crystalline polymer. Bulletin of the Lebedev Physics Institute, 2016, 43, 128-131.	0.6	5
9	Zernike filter based on orientational optical nonlinearity of liquid crystalline systems. Instruments and Experimental Techniques, 2016, 59, 562-564.	0.5	3
10	Optical vortex generation in homeotropic NLCs in the presence of DC electric field. Molecular Crystals and Liquid Crystals, 2016, 637, 47-52.	0.9	7
11	Orientational optical torque in a nematic liquid crystal, caused by trans- and cis-isomers of low- and high-molecular compounds. Bulletin of the Lebedev Physics Institute, 2016, 43, 179-183.	0.6	3
12	Phase diagrams of orientational transitions in absorbing nematic liquid crystals. Journal of Experimental and Theoretical Physics, 2015, 120, 905-911.	0.9	1
13	Formation of the light beam with wavefront screw dislocation at the photorefractive effect in nematic liquid crystal. Bulletin of the Lebedev Physics Institute, 2015, 42, 319-322.	0.6	10
14	Optical vortex formation in the field of the Gaussian beam with high degree of wavefront curvature when passing through undeformed nematic liquid crystal. Bulletin of the Lebedev Physics Institute, 2015, 42, 323-328.	0.6	0
15	Generation of spiral dislocation of wave front in absorbing nematic liquid crystal. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 119, 280-285.	0.6	10
16	Orienting effect of light on dye-doped liquid-crystal polymer. Bulletin of the Lebedev Physics Institute, 2015, 42, 225-228.	0.6	6
17	Light-induced orientation of the molecules of nematic liquid crystals doped with comb-shaped polymers with different spatial distributions of chromophores. Bulletin of the Lebedev Physics Institute, 2014, 41, 135-139.	0.6	3
18	Study of light-induced reorientation of the nematic liquid crystal director by birefringence dynamics. Bulletin of the Lebedev Physics Institute, 2013, 40, 6-11.	0.6	1

#	Article	IF	Citations
19	Light Interaction with NLCs Doped with Comb-Shaped Azopolymers with Different Degrees of Polymerization. Molecular Crystals and Liquid Crystals, 2012, 561, 89-96.	0.9	5
20	Light-induced first-order orientational transitions in a nematic liquid crystal in the presence of an ordinary wave. Quantum Electronics, 2012, 42, 327-331.	1.0	7
21	First-order light-induced orientation transition in nematic liquid crystal in the presence of low-frequency electric field. Applied Physics Letters, 2012, 101, .	3.3	7
22	Orientational optical nonlinearity of nematic liquid crystals induced by high-molecular-mass azo-containing compounds. Polymer Science - Series A, 2011, 53, 655-665.	1.0	7
23	Optical Director Reorientation in NLCs Doped with Light-Absorbing Codendrimers of Different Generations. Molecular Crystals and Liquid Crystals, 2011, 544, 112/[1100]-118/[1106].	0.9	5
24	Self-action of a light beam in nematic liquid crystals in the presence of a DC electric field. Journal of Experimental and Theoretical Physics, 2010, 111, 135-145.	0.9	6
25	Study of the photocurrent in liquid crystal cells exhibiting the photorefractive effect. Bulletin of the Lebedev Physics Institute, 2010, 37, 49-55.	0.6	1
26	Optical bistability of the director field of the dendrimer-doped nematic liquid crystal. Bulletin of the Lebedev Physics Institute, 2010, 37, 257-261.	0.6	3
27	Light- and electric-field-induced first-order orientation transitions in a dendrimer-doped nematic liquid crystal. Physical Review E, 2010, 82, 061705.	2.1	28
28	Interaction of light with a NLCâ€“dendrimer system. Liquid Crystals, 2009, 36, 101-107.	2.2	17
29	Orientational optical nonlinearity induced by comb-shaped polymers in a nematic liquid crystal. Journal of Experimental and Theoretical Physics, 2008, 106, 172-181.	0.9	19
30	Light-Induced Director Reorientation in Nematic Liquid Crystals Doped with Azobenzene-Containing Macromolecules of Different Architecture. Molecular Crystals and Liquid Crystals, 2008, 488, 265-278.	0.9	25
31	Asymmetric Aberration Pattern at Light-Beam Self-Action in NLC Doped with Stilbene Dye. Molecular Crystals and Liquid Crystals, 2008, 488, 11-22.	0.9	1
32	Asymmetric aberrational patterns at light beam self-action in nematic liquid crystals. , 2007, , .		2
33	Orientational Light Interaction with Nematic Liquid Crystal Doped with MEH-PPV Polymer. Molecular Crystals and Liquid Crystals, 2006, 451, 41-52.	0.9	5
34	Orientational Interaction of a Light Beam and NLCs Subjected to External DC Field. Molecular Crystals and Liquid Crystals, 2006, 454, 407/[809]-414/[816].	0.9	3
35	Light Self-Action in NLCs with Orientational and Thermal Nonlinearities. Molecular Crystals and Liquid Crystals, 2006, 453, 71-82.	0.9	8
36	Orienting Influence of Femtosecond Pulses on Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2005, 442, 1-18.	0.9	4

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37	Reversible orientation first-order transitions induced in a nematic liquid crystal by a spatially limited light beam and a low-frequency electric field. Quantum Electronics, 2004, 34, 1151-1156.	1.0	8
38	Time history of laser pulse polarization transformation as a tool of the isotropic-nematic phase transition in liquid crystals. , 2003, , .		0
39	Reorientation of Director of Nematic Liquid Crystals, Doped with Azodyes, under Light and Low-Frequency Fields. Molecular Crystals and Liquid Crystals, 2002, 375, 363-372.	0.9	7
40	On the mechanism of light-induced orientation of molecules in absorbing nematic liquid crystals. JETP Letters, 1998, 68, 437-441.	1.4	16
41	Thermomechanical Effect in Liquid Crystal. Molecular Crystals and Liquid Crystals, 1997, 299, 91-95.	0.3	3
42	Interaction of light with a dye-doped nematic liquid crystal. Journal of Experimental and Theoretical Physics, 1997, 84, 1122-1130.	0.9	11
43	Features of interaction of a narrow light beam with a smectic OCBP. Memory effect. Journal of Russian Laser Research, 1994, 15, 164-176.	0.6	1
44	Polarization dynamics of an ordinary light wave interacting with a nematic liquid crystal. Liquid Crystals, 1993, 15, 787-797.	2.2	19
45	Light Diffraction by Laser Beam Created â€œChannelsâ€•in Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 1983, 91, 137-143.	0.8	18
46	Laser Induced Reorientation of Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 1981, 78, 173-181.	0.8	30