

Victor Ya Zyryanov

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118
papers

1,147
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h-index

26
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137
ext. papers

1,276
ext. citations

1.9
avg, IF

4.27
L-index

#	Paper	IF	Citations
118	Director configurations in nematic droplets with inhomogeneous boundary conditions. <i>Physical Review E</i> , 2005 , 72, 031712	2.4	66
117	Electro-optical device based on photonic structure with a dual-frequency cholesteric liquid crystal. <i>Optics Letters</i> , 2011 , 36, 2632-4	3	48
116	Magnetic-field tunable defect modes in a photonic-crystal/liquid-crystal cell. <i>Optics Express</i> , 2010 , 18, 1283-8	3.3	42
115	Tunable bi-functional photonic device based on one-dimensional photonic crystal infiltrated with a bistable liquid-crystal layer. <i>Optics Express</i> , 2011 , 19, 7349-55	3.3	34
114	Multichannel photonic devices based on tristable polymer-stabilized cholesteric textures. <i>Optics Express</i> , 2011 , 19, 23952-7	3.3	34
113	Orientalional structure transformations caused by the electric-field-induced ionic modification of the interface in nematic droplets. <i>JETP Letters</i> , 2007 , 86, 383-388	1.2	34
112	Electrooptical Switching in a One-Dimensional Photonic Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 488, 118-126	0.5	31
111	One-dimensional photonic crystals with a planar oriented nematic layer: Temperature and angular dependence of the spectra of defect modes. <i>Journal of Experimental and Theoretical Physics</i> , 2008 , 106, 388-398	1	29
110	Optical properties of one-dimensional photonic crystal with a twisted-nematic defect layer. <i>Optics Express</i> , 2010 , 18, 26959-64	3.3	28
109	Spectral modulation of a bistable liquid-crystal photonic structure by the polarization effect. <i>Optical Materials Express</i> , 2013 , 3, 821	2.6	27
108	Transformation of director configuration upon changing boundary conditions in droplets of nematic liquid crystal. <i>JETP Letters</i> , 2004 , 79, 257-261	1.2	27
107	Inverse regime of ionic modification of surface anchoring in nematic droplets. <i>JETP Letters</i> , 2009 , 88, 597-601	1.2	23
106	Interference quenching of light transmitted through a monolayer film of polymer-dispersed nematic liquid crystal. <i>JETP Letters</i> , 2000 , 71, 486-488	1.2	23
105	Electro-thermally tunable reflective colors in a self-organized cholesteric helical superstructure. <i>Photonics Research</i> , 2018 , 6, 1094	6	23
104	Bipolar configuration with twisted loop defect in chiral nematic droplets under homeotropic surface anchoring. <i>Scientific Reports</i> , 2017 , 7, 14582	4.9	22
103	Voltage-induced defect mode coupling in a one-dimensional photonic crystal with a twisted-nematic defect layer. <i>Physical Review E</i> , 2012 , 85, 011705	2.4	21
102	Elongated films of polymer-dispersed liquid crystals as scattering polarizers. <i>Molecular Engineering</i> , 1992 , 1, 305		21

101	Electro-optical response of an ionic-surfactant-doped nematic cell with homeoplanar twisted configuration transition [Invited]. <i>Optical Materials Express</i> , 2014 , 4, 810	2.6	18
100	Electro- and magneto-optical switching of defect modes in one- dimensional photonic crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2011 , 112, 577-587	1	18
99	Domain structures in nematic liquid crystals on a polycarbonate surface. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 16303-20	6.3	17
98	Bipolar Nematic Droplets with Rigidly Fixed Poles in the Electric Field. <i>Molecular Crystals and Liquid Crystals</i> , 1998 , 321, 245-258		17
97	Electrically controlled local Fr̄edericksz transition in a layer of a nematic liquid crystal. <i>JETP Letters</i> , 2012 , 96, 511-516	1.2	15
96	Texture Transformation in Nematic Droplets Caused by Ionic Modification of Boundary Conditions. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 489, 273/[599]-279[605]	0.5	15
95	Electrically induced structure transition in nematic liquid crystal droplets with conical boundary conditions. <i>Physical Review E</i> , 2017 , 96, 052701	2.4	14
94	Small-angle light scattering and transmittance of polymer film, containing liquid crystal droplets with inhomogeneous boundary conditions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012 , 113, 2585-2592	2.1	14
93	Angular tuning of defect modes spectrum in the one-dimensional photonic crystal with liquid-crystal layer. <i>European Physical Journal E</i> , 2007 , 24, 297-302	1.5	14
92	Electro-optics of polymer dispersed ferroelectric liquid crystals. <i>Ferroelectrics</i> , 1993 , 143, 271-276	0.6	14
91	Orientalional structures in cholesteric droplets with homeotropic surface anchoring. <i>Soft Matter</i> , 2019 , 15, 5554-5561	3.6	13
90	Hybrid anchoring for a color-reflective dual-frequency cholesteric liquid crystal device switched by low voltages. <i>Optical Materials Express</i> , 2015 , 5, 2715	2.6	13
89	Friedericksz threshold field in bipolar nematic droplets with strong surface anchoring. <i>JETP Letters</i> , 2007 , 84, 607-612	1.2	13
88	Light modulation characteristics of a single-polarizer electro-optical cell based on polymer dispersed ferroelectric liquid crystals. <i>Liquid Crystals</i> , 2001 , 28, 741-748	2.3	13
87	Chiral Optical Tamm States: Temporal Coupled-Mode Theory. <i>Crystals</i> , 2017 , 7, 113	2.3	12
86	Tunable narrow-bandpass filter based on an asymmetric photonic bandgap structure with a dual-mode liquid crystal. <i>Optics Express</i> , 2014 , 22, 15097-103	3.3	12
85	Electro-optical characteristics of polymer-dispersed liquid crystal film controlled by ionic-surfactant method. <i>Technical Physics Letters</i> , 2011 , 37, 34-36	0.7	12
84	Angular structure of radiation scattered by monolayer of polydisperse droplets of nematic liquid crystal. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2011 , 110, 110-118	0.7	12

83	Photo-manipulated photonic bandgap devices based on optically tristable chiral-tilted homeotropic nematic liquid crystal. <i>Optics Express</i> , 2016 , 24, 25019-25025	3.3	12
82	Polymer dispersed nematic liquid crystal films with conical boundary conditions for electrically controllable polarizers. <i>Optical Materials</i> , 2019 , 89, 1-4	3.3	11
81	Electric and magnetic field-assisted orientational transitions in the ensembles of domains in a nematic liquid crystal on the polymer surface. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 17838-31	6.3	11
80	Spatial and electrical switching of defect modes in a photonic bandgap device with a polymer-dispersed liquid crystal defect layer. <i>Optics Express</i> , 2014 , 22, 20278-83	3.3	11
79	Electro-optical and dielectric properties of polymer-stabilized blue phase liquid crystal impregnated with a fluorine-containing compound. <i>Journal of Molecular Liquids</i> , 2018 , 267, 138-143	6	11
78	Orientalional structures in nematic droplets with conical boundary conditions. <i>JETP Letters</i> , 2017 , 106, 384-389	1.2	10
77	Enhanced light absorption with a cholesteric liquid crystal layer. <i>Optical Materials Express</i> , 2013 , 3, 496	2.6	10
76	Optical Textures and Orientalional Structures of Nematic and Cholesteric Droplets with Heterogeneous Boundary Conditions. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 489, 84/[410]-93/[419] ^{9.5}	9.5	10
75	Comparative analysis of basic physical properties of a ferroelectric liquid crystal and a polymer dispersed ferroelectric liquid crystal. <i>Liquid Crystals</i> , 2002 , 29, 1305-1310	2.3	10
74	Untwisting of the helical structure of cholesteric droplets with homeotropic surface anchoring. <i>JETP Letters</i> , 2017 , 105, 51-54	1.2	9
73	Geometric phase and o-mode blueshift in a chiral anisotropic medium inside a Fabry-Pérot cavity. <i>Physical Review E</i> , 2015 , 92, 052504	2.4	9
72	Magnetic-field control of the transmission of a photonic crystal with a liquid-crystal defect. <i>Technical Physics</i> , 2010 , 55, 1484-1489	0.5	9
71	Characteristics of the process of reorientation of bipolar drops of a nematic with rigidly fixed poles. <i>JETP Letters</i> , 1998 , 67, 733-737	1.2	9
70	Director Configurations within Nematic Droplets Doped by Lecithin. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 438, 141/[1705]-150/[1714]	0.5	9
69	Light transmission of polymer-dispersed liquid crystal layer composed of droplets with inhomogeneous surface anchoring. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2016 , 120, 143-152	0.7	8
68	Switching of Defect Modes in a Photonic Structure with a Tristable Smectic-A Liquid Crystal. <i>Applied Physics Express</i> , 2012 , 5, 082003	2.4	8
67	Thermooptical switching in a one-dimensional photonic crystal. <i>Technical Physics Letters</i> , 2006 , 32, 951-953	3	8
66	Polarizing properties of a stretched film of a polymer-dispersed liquid crystal with a surfactant dopant. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2014 , 81, 414	0.9	7

65	Inverse Mode of Ion-Surfactant Method of Director Reorientation Inside Nematic Droplets. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 512, 152/[1998]-157/[2003]	0.5	7
64	Angle-resolved reflection spectroscopy of high-quality PMMA opal crystal. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2018 , 28, 37-44	2.6	7
63	Small-angle light scattering symmetry breaking in polymer-dispersed liquid crystal films with inhomogeneous electrically controlled interface anchoring. <i>Journal of Experimental and Theoretical Physics</i> , 2017 , 124, 388-405	1	6
62	The dynamics of the response of an electro-optic cell based on a nematic layer with controlled surface anchoring. <i>Technical Physics Letters</i> , 2013 , 39, 583-586	0.7	6
61	Polarization of light by a polymer film containing elongated drops of liquid crystal with inhomogeneous interfacial anchoring. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017 , 122, 984-994	0.7	6
60	The director field distribution with the strongly pinned alignment in nematic structures at the polymer surface. <i>Liquid Crystals</i> , 2015 , 42, 57-64	2.3	6
59	Low voltage and high optical quality polymer dispersed FLC films. <i>Ferroelectrics</i> , 1998 , 212, 153-160	0.6	6
58	Friedericksz Threshold in Bipolar Nematic Droplets with Rigidly Fixed Poles. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 329, 27-34		6
57	Polarization exchange of optical eigenmode pair in twisted-nematic Fabry-Pérot resonator. <i>Physical Review E</i> , 2017 , 96, 022711	2.4	5
56	Investigation of Transmittance and Small-Angle Light Scattering by Monolayer of Liquid Crystal Droplets with Modified Boundary Conditions. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 561, 194-202	0.5	5
55	Magneto-Optical Study of Friedericksz Threshold in Polymer Dispersed Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 488, 309-316	0.5	5
54	Magnetic-field-assisted formation of alignment polymer coatings in liquid crystal cells. <i>Technical Physics Letters</i> , 2008 , 34, 571-573	0.7	5
53	Uniaxially Oriented Films of Polymer Dispersed Liquid Crystals: Textures, Optical Properties and Applications. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 438, 163/[1727]-173/[1737]	0.5	5
52	Saturation voltage and elastic energy of polymer dispersed ferroelectric liquid crystal films. <i>Ferroelectrics</i> , 2000 , 243, 189-196	0.6	5
51	Polymer Dispersed Cholesteric Liquid Crystals With a Toroidal Director Configuration under an Electric Field. <i>Polymers</i> , 2021 , 13,	4.5	5
50	Toroidal Configuration of a Cholesteric Liquid Crystal in Droplets with Homeotropic Anchoring. <i>JETP Letters</i> , 2019 , 109, 478-481	1.2	4
49	Nematic and Cholesteric Liquid Crystal Structures in Cells with Tangential-Conical Boundary Conditions. <i>Crystals</i> , 2019 , 9, 249	2.3	4
48	Modulation of defect modes intensity by controlled light scattering in a photonic structure with a liquid-crystal component. <i>Technical Physics Letters</i> , 2015 , 41, 86-89	0.7	4

47	Magnetic-Field-Induced Structural Transition in Polymer-Dispersed Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 557, 50-59	0.5	4
46	Coherent transmission and angular structure of light scattering by monolayer films of polymer dispersed liquid crystals with inhomogeneous boundary conditions. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2011 , 111, 866-872	0.7	4
45	Light modulation characteristics of single-polarizer PDFLC films. <i>Ferroelectrics</i> , 2000 , 243, 179-188	0.6	4
44	Light modulators based on polymer-dispersed ferroelectric liquid crystals 1996 ,		4
43	Experimental Solution of the Local Field Problem in Uniaxial Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1986 , 133, 135-149		4
42	Morphology stability of polymethylmethacrylate nanospheres formed in water/acetone dispersion medium. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	3
41	Electrically induced transformations of defects in cholesteric layer with tangential-conical boundary conditions. <i>Scientific Reports</i> , 2020 , 10, 4907	4.9	3
40	Resonant angular conversion in a Fabry-Perot resonator holding a dielectric cylinder. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 264-7	1.8	3
39	Multistability in polymer-dispersed cholesteric liquid crystal film doped with ionic surfactant. <i>Technical Physics Letters</i> , 2011 , 37, 805-808	0.7	3
38	Volt-Contrast Curve Anisotropy in Planar-Oriented Pdchlc Films. <i>Molecular Crystals and Liquid Crystals</i> , 1998 , 321, 259-270		3
37	Small-angle light scattering from polymer-dispersed liquid-crystal films. <i>Journal of Experimental and Theoretical Physics</i> , 2008 , 107, 692-698	1	3
36	Low Voltage Light Modulator Based on FLC Layer Divided by Polymer Walls. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 368, 207-214		3
35	Photo-orientation of nematic liquid crystal without preliminary cell surface treatment. <i>Optical Materials Express</i> , 2019 , 9, 2595	2.6	3
34	Dynamic Tuning and Memory Switching of Defect Modes in a Hybrid Photonic Structure. <i>Crystals</i> , 2016 , 6, 129	2.3	3
33	Electric field-controlled transformation of the eigenmodes in a twisted-nematic Fabry-Pérot cavity. <i>Scientific Reports</i> , 2018 , 8, 16869	4.9	3
32	Anionic-cationic surfactant mixture providing the electrically controlled homeotropic surface anchoring of liquid crystals. <i>Journal of Molecular Liquids</i> , 2019 , 282, 57-62	6	2
31	Small-Angle Scattering and Radiation Polarization by a Stretched Polymer Film with Nematic Liquid Crystal Droplets Having a Single-Domain Structure. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2020 , 128, 331-338	0.7	2
30	Optical Textures and Orientational Structures in Cholesteric Droplets with Conical Boundary Conditions. <i>Molecules</i> , 2020 , 25,	4.8	2

29	Electrically induced anchoring transition in cholesteric liquid crystal cells with different confinement ratios. <i>Liquid Crystals</i> , 2018 , 45, 1129-1136	2.3	2
28	Control over the transmission spectrum of a one-dimensional photonic crystal with a liquid-crystal layer. <i>Doklady Physics</i> , 2007 , 52, 134-138	0.8	2
27	Interference of polarized components of defect modes in a multilayered photonic crystal with an optically anisotropic defect. <i>Nanotechnologies in Russia</i> , 2008 , 3, 751-755	0.6	2
26	Interference oscillations in the dynamics of the optical response of polymer dispersed nematic liquid crystals. <i>Technical Physics Letters</i> , 2002 , 28, 675-677	0.7	2
25	Chiral Additive Effects on Electrooptical Response and Droplet Structure in Uniaxially Oriented Films of Polymer Dispersed Nematic. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 367, 369-377		2
24	Polyfunctional optoelectronic elements based on oriented PDCLC films 1998 ,		2
23	Experimental implementation of tunable hybrid Tamm-microcavity modes. <i>Applied Physics Letters</i> , 2021 , 119, 161107	3.4	2
22	Structuring of the Surface Layer of Polycarbonate Film upon Interaction with Nematic Liquid Crystal. <i>Polymer Science - Series C</i> , 2018 , 60, 23-31	1.1	2
21	Liquid crystal materials with ionic-surfactant operation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 594-597	0.4	1
20	Model to describe light scattering by polymer film containing droplets with inhomogeneous anchoring of liquid crystal molecules at the polymer/droplet interface: asymmetry effect in the angular distribution of light. <i>Liquid Crystals</i> , 2019 , 46, 1415-1427	2.3	1
19	Bipolar-homogeneous structural phase transition in nematic droplets formed in the polymer matrix in a magnetic field. <i>Crystallography Reports</i> , 2009 , 54, 1191-1196	0.6	1
18	High Contrast Light Modulator Based on PDNLC Monolayer. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 368, 215-222		1
17	Turbulent model for the combustion of a solid fuel composite. <i>Combustion, Explosion and Shock Waves</i> , 1988 , 24, 652-660	1	1
16	Synchronously controlled optical modes in the transmittance and reflectance spectra of multilayer photonic structure with dual-frequency nematic liquid crystal.. <i>Physical Review E</i> , 2022 , 105, 024702	2.4	1
15	Optical modes of multilayered photonic structure containing nematic layer with abnormal electroconvective rolls. <i>Optical Materials</i> , 2020 , 100, 109630	3.3	1
14	Electrically turning periodic structures in cholesteric layer with conical-planar boundary conditions. <i>Scientific Reports</i> , 2021 , 11, 8409	4.9	1
13	Polar anchoring energy and tilt angle measured by magneto-optical technique in nematic doped with ionic surfactant. <i>Liquid Crystals</i> , 2020 , 47, 1825-1831	2.3	0
12	Optical bistability in a photonic crystal with a liquid-crystal defect. <i>Doklady Physics</i> , 2013 , 58, 219-223	0.8	0

11	Cholesteric layers with tangential-conical surface anchoring for an electrically controlled polarization rotator. <i>Optical Materials Express</i> , 2021 , 11, 1527	2.6	0
10	Transformation of cholesteric orientational structures and optical textures induced by the electric field-driven ionic modification of surface anchoring. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 602-604	0.4	
9	Feature issue introduction: colloidal systems. <i>Optical Materials Express</i> , 2017 , 7, 654	2.6	
8	Structures based on graphitized nanotubulenes with a common electrode in a matrix of porous anodic alumina for the purpose of forming electrically switchable membranes. <i>Technical Physics Letters</i> , 2015 , 41, 1047-1050	0.7	
7	Orientalional changes in the nematic liquid crystal structure on a polymer surface induced by phase separation in a magnetic field. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 1045-1048	0.4	
6	Optimization of the contrast, brightness, and modulation amplitude of light in electrooptic devices based on polymer-encapsulated ferroelectric liquid crystals. <i>Technical Physics Letters</i> , 1998 , 24, 483-484	0.7	
5	A Setup for Studying Microstructural, Thermo- and Electro-Optical Properties of Light-Scattering Film Materials. <i>Instruments and Experimental Techniques</i> , 2005 , 48, 675-678	0.5	
4	One-dimensional photonic crystals with a planar oriented nematic layer: Temperature and angular dependence of the spectra of defect modes 2010 , 106, 388		
3	Eigenmodes in a photonic structure with a torsion-deformed nematic liquid crystal exposed to a magnetic field. <i>Physical Review E</i> , 2020 , 102, 042701	2.4	
2	METHODS TO DETERMINE CRYSTAL LATTICE PARAMETERS OF OPAL-LIKE STRUCTURES. <i>Journal of Structural Chemistry</i> , 2021 , 62, 641-650	0.9	
1	Photonic crystal structures based on submicron particles of polymethyl methacrylate. <i>Journal of Physics: Conference Series</i> , 2021 , 1745, 012024	0.3	