Victor Ya Zyryanov

List of Publications by Year
in descending order

137	1,425	393982	476904
papers	citations	19 h-index	29 g-index

137	137	137	698
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Director configurations in nematic droplets with inhomogeneous boundary conditions. Physical Review E, 2005, 72, 031712.	0.8	69
2	Electro-optical device based on photonic structure with a dual-frequency cholesteric liquid crystal. Optics Letters, 2011, 36, 2632.	1.7	65
3	Magnetic-field tunable defect modes in a photonic-crystal/liquid-crystal cell. Optics Express, 2010, 18, 1283.	1.7	51
4	Multichannel photonic devices based on tristable polymer-stabilized cholesteric textures. Optics Express, 2011, 19, 23952.	1.7	45
5	One-dimensional photonic crystals with a planar oriented nematic layer: Temperature and angular dependence of the spectra of defect modes. Journal of Experimental and Theoretical Physics, 2008, 106, 388-398.	0.2	38
6	Tunable bi-functional photonic device based on one-dimensional photonic crystal infiltrated with a bistable liquid-crystal layer. Optics Express, 2011, 19, 7349.	1.7	37
7	Electrooptical Switching in a One-Dimensional Photonic Crystal. Molecular Crystals and Liquid Crystals, 2008, 488, 118-126.	0.4	36
8	Electro-thermally tunable reflective colors in a self-organized cholesteric helical superstructure. Photonics Research, 2018, 6, 1094.	3.4	36
9	Orientational structure transformations caused by the electric-field-induced ionic modification of the interface in nematic droplets. JETP Letters, 2007, 86, 383-388.	0.4	34
10	Optical properties of one-dimensional photonic crystal with a twisted-nematic defect layer. Optics Express, 2010, 18, 26959.	1.7	33
11	Spectral modulation of a bistable liquid-crystal photonic structure by the polarization effect. Optical Materials Express, 2013, 3, 821.	1.6	32
12	Transformation of director configuration upon changing boundary conditions in droplets of nematic liquid crystal. JETP Letters, 2004, 79, 257-261.	0.4	29
13	Interference quenching of light transmitted through a monolayer film of polymer-dispersed nematic liquid crystal. JETP Letters, 2000, 71, 486-488.	0.4	28
14	Bipolar configuration with twisted loop defect in chiral nematic droplets under homeotropic surface anchoring. Scientific Reports, 2017, 7, 14582.	1.6	27
15	Voltage-induced defect mode coupling in a one-dimensional photonic crystal with a twisted-nematic defect layer. Physical Review E, 2012, 85, 011705.	0.8	26
16	Domain Structures in Nematic Liquid Crystals on a Polycarbonate Surface. International Journal of Molecular Sciences, 2013, 14, 16303-16320.	1.8	26
17	Inverse regime of ionic modification of surface anchoring in nematic droplets. JETP Letters, 2009, 88, 597-601.	0.4	23
18	Elongated films of polymer-dispersed liquid crystals as scattering polarizers. Molecular Engineering, 1992, 1, 305.	0.2	21

#	Article	IF	Citations
19	Bipolar Nematic Droplets with Rigidly Fixed Poles in the Electric Field. Molecular Crystals and Liquid Crystals, 1998, 321, 245-258.	0.3	21
20	Electro-optical response of an ionic-surfactant-doped nematic cell with homeoplanarâ€“twisted configuration transition [Invited]. Optical Materials Express, 2014, 4, 810.	1.6	21
21	Orientational structures in cholesteric droplets with homeotropic surface anchoring. Soft Matter, 2019, 15, 5554-5561.	1.2	21
22	Angular tuning of defect modes spectrum in the one-dimensional photonic crystal with liquid-crystal layer. European Physical Journal E, 2007, 24, 297-302.	0.7	20
23	Electro- and magneto-optical switching of defect modes in one- dimensional photonic crystals. Journal of Experimental and Theoretical Physics, 2011, 112, 577-587.	0.2	19
24	Electrically induced structure transition in nematic liquid crystal droplets with conical boundary conditions. Physical Review E, 2017, 96, 052701.	0.8	19
25	Tunable narrow-bandpass filter based on an asymmetric photonic bandgap structure with a dual-mode liquid crystal. Optics Express, 2014, 22, 15097.	1.7	17
26	Hybrid anchoring for a color-reflective dual-frequency cholesteric liquid crystal device switched by low voltages. Optical Materials Express, 2015, 5, 2715.	1.6	17
27	Electro-optical and dielectric properties of polymer-stabilized blue phase liquid crystal impregnated with a fluorine-containing compound. Journal of Molecular Liquids, 2018, 267, 138-143.	2.3	17
28	Electrically controlled local FrÃ©dericksz transition in a layer of a nematic liquid crystal. JETP Letters, 2012, 96, 511-516.	0.4	16
29	Electric and Magnetic Field-Assisted Orientational Transitions in the Ensembles of Domains in a Nematic Liquid Crystal on the Polymer Surface. International Journal of Molecular Sciences, 2014, 15, 17838-17851.	1.8	16
30	Photo-manipulated photonic bandgap devices based on optically tristable chiral-tilted homeotropic nematic liquid crystal. Optics Express, 2016, 24, 25019.	1.7	16
31	Electro-optics of polymer dispersed ferroelectric liquid crystals. Ferroelectrics, 1993, 143, 271-276.	0.3	15
32	Texture Transformation in Nematic Droplets Caused by Ionic Modification of Boundary Conditions. Molecular Crystals and Liquid Crystals, 2008, 489, 273/[599]-279[605].	0.4	15
33	Polymer dispersed nematic liquid crystal films with conical boundary conditions for electrically controllable polarizers. Optical Materials, 2019, 89, 1-4.	1.7	15
34	Light modulation characteristics of a single-polarizer electro-optical cell based on polymer dispersed ferroelectric liquid crystals. Liquid Crystals, 2001, 28, 741-748.	0.9	14
35	Friedericksz threshold field in bipolar nematic droplets with strong surface anchoring. JETP Letters, 2007, 84, 607-612.	0.4	14
36	Optical Textures and Orientational Structures of Nematic and Cholesteric Droplets with Heterogeneous Boundary Conditions. Molecular Crystals and Liquid Crystals, 2008, 489, 84/[410]-93/[419].	0.4	14

#	Article	IF	Citations
37	Small-angle light scattering and transmittance of polymer film, containing liquid crystal droplets with inhomogeneous boundary conditions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2585-2592.	1.1	14
38	Chiral Optical Tamm States: Temporal Coupled-Mode Theory. Crystals, 2017, 7, 113.	1.0	14
39	Thermooptical switching in a one-dimensional photonic crystal. Technical Physics Letters, 2006, 32, 951-953.	0.2	13
40	Electro-optical characteristics of polymer-dispersed liquid crystal film controlled by ionic-surfactant method. Technical Physics Letters, 2011, 37, 34-36.	0.2	13
41	Angular structure of radiation scattered by monolayer of polydisperse droplets of nematic liquid crystal. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2011, 110, 110-118.	0.2	12
42	Spatial and electrical switching of defect modes in a photonic bandgap device with a polymer-dispersed liquid crystal defect layer. Optics Express, 2014, 22, 20278.	1.7	12
43	Geometric phase and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>o</mml:mi></mml:math>-mode blueshift in a chiral anisotropic medium inside a Fabry-PÃ©rot cavity. Physical Review E, 2015, 92, 052504.	0.8	12
44	Untwisting of the helical structure of cholesteric droplets with homeotropic surface anchoring. JETP Letters, 2017, 105, 51-54.	0.4	12
45	Polymer Dispersed Cholesteric Liquid Crystals with a Toroidal Director Configuration under an Electric Field. Polymers, 2021, 13, 732.	2.0	12
46	Characteristics of the process of reorientation of bipolar drops of a nematic with rigidly fixed poles. JETP Letters, 1998, 67, 733-737.	0.4	11
47	Comparative analysis of basic physical properties of a ferroelectric liquid crystal and a polymer dispersed ferroelectric liquid crystal. Liquid Crystals, 2002, 29, 1305-1310.	0.9	11
48	Enhanced light absorption with a cholesteric liquid crystal layer. Optical Materials Express, 2013, 3, 496.	1.6	11
49	Orientational structures in nematic droplets with conical boundary conditions. JETP Letters, 2017, 106, 384-389.	0.4	11
50	Director Configurations within Nematic Droplets Doped by Lecithin. Molecular Crystals and Liquid Crystals, 2005, 438, 141/[1705]-150/[1714].	0.4	10
51	Angle-resolved reflection spectroscopy of high-quality PMMA opal crystal. Photonics and Nanostructures - Fundamentals and Applications, 2018, 28, 37-44.	1.0	10
52	Magnetic-field control of the transmission of a photonic crystal with a liquid-crystal defect. Technical Physics, 2010, 55, 1484-1489.	0.2	9
53	Switching of Defect Modes in a Photonic Structure with a Tristable Smectic-A Liquid Crystal. Applied Physics Express, 2012, 5, 082003.	1.1	9
54	Low voltage and high optical quality polymer dispersed FLC films. Ferroelectrics, 1998, 212, 153-160.	0.3	8

#	ARTICLE	IF	CITATIONS
55	Friedericksz Threshold in Bipolar Nematic Droplets with Rigidly Fixed Poles. Molecular Crystals and Liquid Crystals, 1999, 329, 27-34.	0.3	8
56	Interference and ion effects in the electro-optical response of PDNLC films. Journal of the Society for Information Display, 2005, 13, 273.	0.8	8
57	Magnetic-Field-Induced Structural Transition in Polymer-Dispersed Liquid Crystals. Molecular Crystals and Liquid Crystals, 2012, 557, 50-59.	0.4	8
58	Polarizing properties of a stretched film of a polymer-dispersed liquid crystal with a surfactant dopant. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2014, 81, 414.	0.2	8
59	The director field distribution with the strongly pinned alignment in nematic structures at the polymer surface. Liquid Crystals, 2015, 42, 57-64.	0.9	8
60	Light transmission of polymer-dispersed liquid crystal layer composed of droplets with inhomogeneous surface anchoring. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 537	0.2	8
61	Nematic and Cholesteric Liquid Crystal Structures in Cells with Tangential-Conical Boundary Conditions. Crystals, 2019, 9, 249.	1.0	8
62	Experimental Solution of the Local Field Problem in Uniaxial Liquid Crystals^{â€}. Molecular Crystals and Liquid Crystals, 1986, 133, 135-149.	0.9	7
63	Saturation voltage and elastic energy of polymer dispersed ferroelectric liquid crystal films. Ferroelectrics, 2000, 243, 189-196.	0.3	7
64	Inverse Mode of Ion-Surfactant Method of Director Reorientation Inside Nematic Droplets. Molecular Crystals and Liquid Crystals, 2009, 512, 152/[1998]-157/[2003].	0.4	7
65	Small-angle light scattering symmetry breaking in polymer-dispersed liquid crystal films with inhomogeneous electrically controlled interface anchoring. Journal of Experimental and Theoretical Physics, 2017, 124, 388-405.	0.2	7
66	Polarization exchange of optical eigenmode pair in twisted-nematic Fabry-PÃ©rot resonator. Physical Review E, 2017, 96, 022711.	0.8	7
67	Polarization of light by a polymer film containing elongated drops of liquid crystal with inhomogeneous interfacial anchoring. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.4	7
68	Optical Textures and Orientational Structures in Cholesteric Droplets with Conical Boundary Conditions. Molecules, 2020, 25, 1740.	1.7	7
69	Experimental implementation of tunable hybrid Tamm-microcavity modes. Applied Physics Letters, 2021, 119, 161107.	1.5	7
70	Light modulation characteristics of single-polarizer PDFLC films. Ferroelectrics, 2000, 243, 179-188.	0.3	6
71	Magnetic-field-assisted formation of alignment polymer coatings in liquid crystal cells. Technical Physics Letters, 2008, 34, 571-573.	0.2	6
72	Magneto-Optical Study of Friedericksz Threshold in Polymer Dispersed Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2008, 488, 309-316.	0.4	6

#	Article	IF	Citations
73	The dynamics of the response of an electro-optic cell based on a nematic layer with controlled surface anchoring. Technical Physics Letters, 2013, 39, 583-586.	0.2	6
74	Electrically induced transformations of defects in cholesteric layer with tangential-conical boundary conditions. Scientific Reports, 2020, 10, 4907.	1.6	6
75	Uniaxially Oriented Films of Polymer Dispersed Liquid Crystals: Textures, Optical Properties and Applications. Molecular Crystals and Liquid Crystals, 2005, 438, 163/[1727]-173/[1737].	0.4	5
76	Investigation of Transmittance and Small-Angle Light Scattering by Monolayer of Liquid Crystal Droplets with Modified Boundary Conditions. Molecular Crystals and Liquid Crystals, 2012, 561, 194-202.	0.4	5
77	Modulation of defect modes intensity by controlled light scattering in a photonic structure with a liquid-crystal component. Technical Physics Letters, 2015, 41, 86-89.	0.2	5
78	Morphology stability of polymethylmethacrylate nanospheres formed in waterâ€“acetone dispersion medium. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	5
79	Toroidal Configuration of a Cholesteric Liquid Crystal in Droplets with Homeotropic Anchoring. JETP Letters, 2019, 109, 478-481.	0.4	5
80	<title>Light modulators based on polymer-dispersed ferroelectric liquid crystals</title>. , 1996, , .		4
81	Small-angle light scattering from polymer-dispersed liquid-crystal films. Journal of Experimental and Theoretical Physics, 2008, 107, 692-698.	0.2	4
82	Multistability in polymer-dispersed cholesteric liquid crystal film doped with ionic surfactant. Technical Physics Letters, 2011, 37, 805-808.	0.2	4
83	Coherent transmission and angular structure of light scattering by monolayer films of polymer dispersed liquid crystals with inhomogeneous boundary conditions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2011, 111, 866-872.	0.2	4
84	Electric field-controlled transformation of the eigenmodes in a twisted-nematic Fabryâ€“PÃ©rot cavity. Scientific Reports, 2018, 8, 16869.	1.6	4
85	Optical modes of multilayered photonic structure containing nematic layer with abnormal electroconvective rolls. Optical Materials, 2020, 100, 109630.	1.7	4
86	Electrically turning periodic structures in cholesteric layer with conicalâ€“planar boundary conditions. Scientific Reports, 2021, 11, 8409.	1.6	4
87	Volt-Contrast Curve Anisotropy in Planar-Oriented Pdchlc Films. Molecular Crystals and Liquid Crystals, 1998, 321, 259-270.	0.3	3
88	Low Voltage Light Modulator Based on FLC Layer Divided by Polymer Walls. Molecular Crystals and Liquid Crystals, 2001, 368, 207-214.	0.3	3
89	Interference oscillations in the dynamics of the optical response of polymer dispersed nematic liquid crystals. Technical Physics Letters, 2002, 28, 675-677.	0.2	3
90	Resonant angular conversion in a Fabryâ€“Perot resonator holding a dielectric cylinder. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 264.	0.8	3

#	ARTICLE	IF	CITATIONS
91	Dynamic Tuning and Memory Switching of Defect Modes in a Hybrid Photonic Structure. Crystals, 2016, 6, 129.	1.0	3
92	Structuring of the Surface Layer of Polycarbonate Film upon Interaction with Nematic Liquid Crystal. Polymer Science - Series C, 2018, 60, 23-31.	0.8	3
93	Small-Angle Scattering and Radiation Polarization by a Stretched Polymer Film with Nematic Liquid Crystal Droplets Having a Single-Domain Structure. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0.784314 rgBT /Over	0.8	3
94	Cholesteric layers with tangential-conical surface anchoring for an electrically controlled polarization rotator. Optical Materials Express, 2021, 11, 1527.	1.6	3
95	Nematic Structures under Conical Anchoring at Various Director Tilt Angles Specified by Polymethacrylate Compositions. Polymers, 2021, 13, 2993.	2.0	3
96	Photo-orientation of nematic liquid crystal without preliminary cell surface treatment. Optical Materials Express, 2019, 9, 2595.	1.6	3
97	Turbulent model for the combustion of a solid fuel composite. Combustion, Explosion and Shock Waves, 1988, 24, 652-660.	0.3	2
98	Polyfunctional optoelectronic elements based on oriented PDCLC films. , 1998, , .		2
99	High Contrast Light Modulator Based on PDNLC Monolayer. Molecular Crystals and Liquid Crystals, 2001, 368, 215-222.	0.3	2
100	Chiral Additive Effects on Electrooptical Response and Droplet Structure in Uniaxially Oriented Films of Polymer Dispersed Nematic. Molecular Crystals and Liquid Crystals, 2001, 367, 369-377.	0.3	2
101	Control over the transmission spectrum of a one-dimensional photonic crystal with a liquid-crystal layer. Doklady Physics, 2007, 52, 134-138.	0.2	2
102	Interference of polarized components of defect modes in a multilayered photonic crystal with an optically anisotropic defect. Nanotechnologies in Russia, 2008, 3, 751-755.	0.7	2
103	Electrically induced anchoring transition in cholesteric liquid crystal cells with different confinement ratios. Liquid Crystals, 2018, 45, 1129-1136.	0.9	2
104	Anionic-cationic surfactant mixture providing the electrically controlled homeotropic surface anchoring of liquid crystals. Journal of Molecular Liquids, 2019, 282, 57-62.	2.3	2
105	Polymer-Dispersed Cholesteric Liquid Crystal under Homeotropic Anchoring: Electrically Induced Structures with Î»1/2-Disclination. Polymers, 2022, 14, 1454.	2.0	2
106	Effect of elastic constants on electrically induced transition in twisted radial cholesteric droplets. Scientific Reports, 2022, 12, .	1.6	2
107	<title>Electro-optical bistability and thermoaddressed information recording in polymer-dispersed cholesterics</title>. , 1996, 2731, 159.		1
108	<title>Thermo-optical information recording in the bistable films of polymer dispersed cholesteric liquid crystals</title>. , 1998, , .		1

#	Article	IF	Citations
109	Optical anisotropy of uniaxially oriented films of polymer-encapsulated liquid crystals. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2005, 72, 675.	0.2	1
110	<title>Magneto and electro-optical measurements of Freedericksz threshold in PDNLC films</title>. , 2007, , .		1
111	Bipolar-homogeneous structural phase transition in nematic droplets formed in the polymer matrix in a magnetic field. Crystallography Reports, 2009, 54, 1191-1196.	0.1	1
112	Optical bistability in a photonic crystal with a liquid-crystal defect. Doklady Physics, 2013, 58, 219-223.	0.2	1
113	Liquid crystal materials with ionic-surfactant operation. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 594-597.	0.1	1
114	Model to describe light scattering by polymer film containing droplets with inhomogeneous anchoring of liquid crystal molecules at the polymerâ€“droplet interface: asymmetry effect in the angular distribution of light. Liquid Crystals, 2019, 46, 1415-1427.	0.9	1
115	Polar anchoring energy and tilt angle measured by magneto-optical technique in nematic doped with ionic surfactant. Liquid Crystals, 2020, 47, 1825-1831.	0.9	1
116	METHODS TO DETERMINE CRYSTAL LATTICE PARAMETERS OF OPAL-LIKE STRUCTURES. Journal of Structural Chemistry, 2021, 62, 641-650.	0.3	1
117	Synthesis of Organotriphenylphosphonium Halides, Quaternary Ammonium Salts and Study of their Application as Surfactants Soluble in Liquid Crystals. Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie, 2020, 20, 6-18.	0.0	1
118	Synchronously controlled optical modes in the transmittance and reflectance spectra of multilayer photonic structure with dual-frequency nematic liquid crystal. Physical Review E, 2022, 105, 024702.	0.8	1
119	Liquid Crystal Materials under Conical Boundary Conditions. Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie, 2021, 21, 99-102.	0.0	1
120	Optimization of the contrast, brightness, and modulation amplitude of light in electrooptic devices based on polymer-encapsulated ferroelectric liquid crystals. Technical Physics Letters, 1998, 24, 483-484.	0.2	0
121	Optimizing the light-modulation characteristics of a polymer-encapsulated ferroelectric liquid-crystal cell. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 1999, 66, 562.	0.2	0
122	A Setup for Studying Microstructural, Thermo- and Electro-Optical Properties of Light-Scattering Film Materials. Instruments and Experimental Techniques, 2005, 48, 675-678.	0.1	0
123	<title>Aligning effect of magnetic field on PDLC films during the phase separation</title>. , 2007, , .		0
124	<title>Control of transmission spectra of planar photonic crytal with LC defect</title>. , 2007, , .		0
125	Orientational changes in the nematic liquid crystal structure on a polymer surface induced by phase separation in a magnetic field. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 1045-1048.	0.1	0
126	Structures based on graphitized nanotubulenes with a common electrode in a matrix of porous anodic alumina for the purpose of forming electrically switchable membranes. Technical Physics Letters, 2015, 41, 1047-1050.	0.2	0

#	Article	IF	Citations
127	Transformation of cholesteric orientational structures and optical textures induced by the electric fieldâ€“driven ionic modification of surface anchoring. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 602-604.	0.1	0
128	Feature issue introduction: colloidal systems. Optical Materials Express, 2017, 7, 654.	1.6	0
129	Eigenmodes in a photonic structure with a torsion-deformed nematic liquid crystal exposed to a magnetic field. Physical Review E, 2020, 102, 042701.	0.8	0
130	Photonic crystal structures based on submicron particles of polymethyl methacrylate. Journal of Physics: Conference Series, 2021, 1745, 012024.	0.3	0
131	10.1007/s11447-008-2017-9. , 2010, 106, 388.		0
132	Use of Catastrophe Theory to the Study of Large-Scale Fluctuations in Nematic Droplets Prepared Under Magnetic Field. Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie, 2017, 17, 83-92.	0.0	0
133	Influence of Ionic Surfactant on the Anchoring Energy of Liquid Crystal with a Surface Investigated Using Magnetic Threshold Fields of Freedericksz Transition. Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie, 2018, 18, 59-66.	0.0	0
134	Synthesis and Study of Anisotropic Ammonium Salts for Production of Liquid-Crystalline Materials and Devices with Variable Surface Anchoring. Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie, 2018, 18, 27-39.	0.0	0
135	Optical Properties of Multilayer Photon Structures Containing Twisted Nematic Components. Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie, 2022, 22, 94-99.	0.0	0
136	Electrically Controlled Ionic Modification of Surface Anchoring in Liquid Crystal Materials. Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie, 2022, 22, 89-93.	0.0	0
137	Structure and Optical Properties of Self-Organized Nematic Domains Ensembles on Polycarbonate Surface. Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie, 2022, 22, 84-88.	0.0	0