Yuriy A Nastishin

List of Publications by Year
in descending order

62	1,674	394421 19	289244 40
papers	citations	h-index	g-index

62	62	62	1295
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical characterization of the nematic lyotropic chromonic liquid crystals: Light absorption, birefringence, and scalar order parameter. Physical Review E, 2005, 72, 041711.	2.1	152
2	Self-Assembly of Lyotropic Chromonic Liquid Crystal Sunset Yellow and Effects of Ionic Additives. Journal of Physical Chemistry B, 2008, 112, 16307-16319.	2.6	130
3	Nematic polar anchoring strength measured by electric field techniques. Journal of Applied Physics, 1999, 86, 4199-4213.	2.5	122
4	Elasticity of Lyotropic Chromonic Liquid Crystals Probed by Director Reorientation in a Magnetic Field. Physical Review Letters, 2012, 109, 037801.	7.8	120
5	An Ambipolar BODIPY Derivative for a White Exciplex OLED and Cholesteric Liquid Crystal Laser toward Multifunctional Devices. ACS Applied Materials & Interfaces, 2017, 9, 4750-4757.	8.0	116
6	Elasticity, viscosity, and orientational fluctuations of a lyotropic chromonic nematic liquid crystal disodium cromoglycate. Soft Matter, 2014, 10, 6571-6581.	2.7	114
7	Elastic and viscous properties of the nematic dimer CB7CB. Physical Review E, 2017, 96, 062704.	2.1	79
8	Helical Smectic A. Europhysics Letters, 1990, 13, 313-318.	2.0	68
9	Surface Alignment and Anchoring Transitions in Nematic Lyotropic Chromonic Liquid Crystal. Physical Review Letters, 2010, 105, 017801.	7.8	68
10	Determination of nematic polar anchoring from retardation versus voltage measurements. Applied Physics Letters, 1999, 75, 202-204.	3.3	61
11	Pretransitional fluctuations in the isotropic phase of a lyotropic chromonic liquid crystal. Physical Review E, 2004, 70, 051706.	2.1	58
12	Lyotropic chromonic liquid crystal semiconductors for water-solution processable organic electronics. Applied Physics Letters, 2010, 97, .	3.3	57
13	Defects in Degenerate Hybrid Aligned Nematic Liquid Crystals. Europhysics Letters, 1990, 12, 135-141.	2.0	55
14	Liquid crystal helical ribbons as isometric textures. European Physical Journal E, 2005, 16, 37-47.	1.6	35
15	Dislocations and Disclinations in Mesomorphic Phases. Dislocations in Solids, 2004, , 147-271.	1.6	25
16	Cholesterol-Based Grafted Polymer Brushes as Alignment Coating with Temperature-Tuned Anchoring for Nematic Liquid Crystals. Langmuir, 2016, 32, 11029-11038.	3.5	25
17	Textural analysis of a mesophase with banana shaped molecules. European Physical Journal E, 2003, 12, 581-591.	1.6	24
18	Imperfections in focal conic domains: the role of dislocations. Philosophical Magazine, 2006, 86, 4439-4458.	1.6	22

#	Article	IF	Citations
19	Comment on â€œSelf-Organized Periodic Photonic Structure in a Nonchiral Liquid Crystalâ€• Physical Review Letters, 2004, 93, 109401.	7.8	21
20	Electro-Optic Effects in Colloidal Dispersion of Metal Nano-Rods in Dielectric Fluid. Materials, 2011, 4, 390-416.	2.9	20
21	Testing Signals for Electronics: Criteria for Synthesis. Journal of Electronic Testing: Theory and Applications (JETTA), 2019, 35, 349-357.	1.2	19
22	Aggregation, pretransitional behavior, and optical properties in the isotropic phase of lyotropic chromonic liquid crystals studied in high magnetic fields. Soft Matter, 2013, 9, 9487.	2.7	18
23	Composition, thickness and properties of grafted copolymer brush coatings determined by ellipsometry: calculation and prediction. Soft Matter, 2018, 14, 1016-1025.	2.7	18
24	Identification of a TGBA liquid crystal phase via its defects. European Physical Journal E, 2001, 5, 353-357.	1.6	17
25	Polarizing Properties of Functional Optical Films Based on Lyotropic Chromonic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2007, 467, 181-194.	0.9	16
26	Imperfect focal conic domains in A smectics: a textural analysis. Liquid Crystals, 2008, 35, 609-624.	2.2	16
27	Rheological properties of chiral liquid crystals possessing a cholestericâ€“smectic A transition. Liquid Crystals, 2004, 31, 593-599.	2.2	13
28	Optimization of requirements for measuring instruments at metrological service of communication tools. Measurement: Journal of the International Measurement Confederation, 2018, 123, 19-25.	5.0	13
29	Spectrum Analyzer Based on a Dynamic Filter. Journal of Electronic Testing: Theory and Applications (JETTA), 2021, 37, 357-368.	1.2	13
30	Comparative analysis of anisotropic material properties of uniaxial nematics formed by flexible dimers and rod-like monomers. Liquid Crystals, 0, , 1-13.	2.2	12
31	Brine-Rich Corner of the Phase Diagram of the Ternary System Cetylpyridinium Chlorideâˆ’Hexanolâˆ’Brine. Langmuir, 1996, 12, 5011-5015.	3.5	10
32	Defects in a TGBA phase: A theoretical approach. European Physical Journal E, 2002, 8, 67-78.	1.6	10
33	Multifunctional cholesterol-based peroxide for modification of amino-terminated surfaces: Synthesis, structure and characterization of grafted layer. Applied Surface Science, 2015, 347, 299-306.	6.1	10
34	Liquid crystal phases with unusual structures and physical properties formed by acute-angle bent core molecules. Physical Review Research, 2020, 2, .	3.6	10
35	Helical defects in smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>and smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>A</mml:mi><mml:mo>âˆ—</mml:mo></mml:msup></mml:mrow></mml:math>ph Physical Review E, 2010, 82, 031704.	2.1	9
36	Selective light-induced desorption: The mechanism of photoalignment of liquid crystals at adsorbing solid surfaces. Europhysics Letters, 2006, 75, 448-454.	2.0	8

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37	Kinked Focal Conic Domains in a SmA. Molecular Crystals and Liquid Crystals, 2007, 477, 43-53.	0.9	8
38	Double helical defects in smectic A and smectic A* phases. Liquid Crystals, 2010, 37, 1047-1057.	2.2	8
39	Lasing in imperfectly aligned cholesterics. Applied Optics, 2015, 54, 9644.	2.1	6
40	Differential and integral Jones matrices for a cholesteric. Physical Review A, 2018, 97, .	2.5	6
41	Effect of UV-light irradiation on phase diagram of lyotropic chromonic liquid crystal. Journal of Molecular Liquids, 2018, 267, 96-99.	4.9	6
42	Defects in bent-core liquid crystals. Liquid Crystals Reviews, 2023, 11, 48-73.	4.1	6
43	Differential and integral extended Jones matrices for oblique light propagation through a deformed crystal. Physical Review A, 2013, 87, .	2.5	5
44	Image fusion for a target sightseeing system of armored vehicles. Military Technical Collection, 2019, .	0.1	5
45	Fusion of visible and infrared images via complex function. Military Technical Collection, 2020, .	0.1	5
46	Optical spatial dispersion in terms of Jones calculus. Physical Review A, 2019, 100, .	2.5	4
47	Adjustment of electronic and emissive properties of indolocarbazoles for non-doped OLEDs and cholesteric liquid crystal lasers. Applied Materials Today, 2021, 24, 101121.	4.3	4
48	Complex function as a template for image fusion. Results in Optics, 2021, 2, 100038.	2.0	4
49	Current state and prospects for the further development of the sighting systems of armoured force vehicles. Military Technical Collection, 2019, .	0.1	4
50	Electrically reconfigurable optical metamaterials based on orientationally ordered dispersions of metal nano-rods in dielectric fluids. Proceedings of SPIE, 2010, , .	0.8	3
51	Ray tracing matrix approach for refractive index mismatch aberrations in confocal microscopy. Applied Optics, 2017, 56, 2467.	2.1	3
52	Electronic energy levels in lyotropic chromonic liquid crystals formed by ionic perylene diimide derivatives. Synthetic Metals, 2019, 257, 116147.	3.9	3
53	Method of Power Adaptation for Signals Emitted in a Wireless Network in Terms of Neuro-Fuzzy System. Wireless Personal Communications, 2020, 115, 597-609.	2.7	3
54	Conoscopic Patterns for Uniaxial Gyrotropic Crystals in the Vicinity of Isotropic Point. , 2006, , .		2

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55	Methodology for determining the sequence of checking radio electronic complexes at maintenance. Military Technical Collection, 2020, .	0.1	2
56	Dynamic fusion of images from the visible and infrared channels of sightseeing system by complex matrix formalism. Military Technical Collection, 2021, , 29-37.	0.1	2
57	‹title›Interface between the L3 (sponge) phase and a solid substrate‹/title›. , 1998, 3488, 156.		1
58	‹title›Surface influence on the optical properties of the isotropic phase of a chiral liquid crystal‹/title›. , 1998, 3488, 149.		0
59	Assessment of the influence of diagnostic support on reliability of radio electronic systems. Military Technical Collection, 2021, , 3-8.	0.1	0
60	‹title›Observation of magneto-optical effects in blue phase system‹/title›. , 1998, , .		0
61	Ð™Ð¼Ð¾Ð²Ñ–Ñ€Ð½Ñ–ÑÑ‚ÑŒ Ð²Ð¸Ð¼Ð¾Ð³Ð°Ð½Ð½Ñ•Ð²Ñ–Ð·Ð·ÑƒÐ°Ð»ÑŒÐ½Ð¾Ñ— Ð·Ð°Ð´Ð°Ñ‡Ñ– Ñ‰Ð¾ Ð³Ð¾Ð¼Ð—Ð		
62	Research of diagnostic models of subsystems of power supply of radioelectronic means. Military Technical Collection, 2021, , 76-84.	0.1	0