

# Yuriy A Nastishin

## List of Publications by Year in descending order

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62  
papers

1,674  
citations

394421

19  
h-index

289244

40  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Defects in bent-core liquid crystals. <i>Liquid Crystals Reviews</i> , 2023, 11, 48-73.	4.1	6
2	Assessment of the influence of diagnostic support on reliability of radio electronic systems. <i>Military Technical Collection</i> , 2021, , 3-8.	0.1	0
3	Spectrum Analyzer Based on a Dynamic Filter. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , 2021, 37, 357-368.	1.2	13
4	Adjustment of electronic and emissive properties of indolocarbazoles for non-doped OLEDs and cholesteric liquid crystal lasers. <i>Applied Materials Today</i> , 2021, 24, 101121.	4.3	4
5	Complex function as a template for image fusion. <i>Results in Optics</i> , 2021, 2, 100038.	2.0	4
6	Research of diagnostic models of subsystems of power supply of radioelectronic means. <i>Military Technical Collection</i> , 2021, , 76-84.	0.1	0
7	Dynamic fusion of images from the visible and infrared channels of sightseeing system by complex matrix formalism. <i>Military Technical Collection</i> , 2021, , 29-37.	0.1	2
8	Method of Power Adaptation for Signals Emitted in a Wireless Network in Terms of Neuro-Fuzzy System. <i>Wireless Personal Communications</i> , 2020, 115, 597-609.	2.7	3
9	Fusion of visible and infrared images via complex function. <i>Military Technical Collection</i> , 2020, .	0.1	5
10	Methodology for determining the sequence of checking radio electronic complexes at maintenance. <i>Military Technical Collection</i> , 2020, .	0.1	2
11	Liquid crystal phases with unusual structures and physical properties formed by acute-angle bent core molecules. <i>Physical Review Research</i> , 2020, 2, .	3.6	10
12	Optical spatial dispersion in terms of Jones calculus. <i>Physical Review A</i> , 2019, 100, .	2.5	4
13	Electronic energy levels in lyotropic chromonic liquid crystals formed by ionic perylene diimide derivatives. <i>Synthetic Metals</i> , 2019, 257, 116147.	3.9	3
14	Testing Signals for Electronics: Criteria for Synthesis. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , 2019, 35, 349-357.	1.2	19
15	Current state and prospects for the further development of the sighting systems of armoured force vehicles. <i>Military Technical Collection</i> , 2019, .	0.1	4
16	Image fusion for a target sightseeing system of armored vehicles. <i>Military Technical Collection</i> , 2019, .	0.1	5
17	Composition, thickness and properties of grafted copolymer brush coatings determined by ellipsometry: calculation and prediction. <i>Soft Matter</i> , 2018, 14, 1016-1025.	2.7	18

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19	Differential and integral Jones matrices for a cholesteric. <i>Physical Review A</i> , 2018, 97, .	2.5	6
20	Optimization of requirements for measuring instruments at metrological service of communication tools. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 123, 19-25.	5.0	13
21	Effect of UV-light irradiation on phase diagram of lyotropic chromonic liquid crystal. <i>Journal of Molecular Liquids</i> , 2018, 267, 96-99.	4.9	6
22	An Ambipolar BODIPY Derivative for a White Exciplex OLED and Cholesteric Liquid Crystal Laser toward Multifunctional Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4750-4757.	8.0	116
23	Elastic and viscous properties of the nematic dimer CB7CB. <i>Physical Review E</i> , 2017, 96, 062704.	2.1	79
24	Ray tracing matrix approach for refractive index mismatch aberrations in confocal microscopy. <i>Applied Optics</i> , 2017, 56, 2467.	2.1	3
25	Cholesterol-Based Grafted Polymer Brushes as Alignment Coating with Temperature-Tuned Anchoring for Nematic Liquid Crystals. <i>Langmuir</i> , 2016, 32, 11029-11038.	3.5	25
26	Lasing in imperfectly aligned cholesterics. <i>Applied Optics</i> , 2015, 54, 9644.	2.1	6
27	Multifunctional cholesterol-based peroxide for modification of amino-terminated surfaces: Synthesis, structure and characterization of grafted layer. <i>Applied Surface Science</i> , 2015, 347, 299-306.	6.1	10
28	Elasticity, viscosity, and orientational fluctuations of a lyotropic chromonic nematic liquid crystal disodium cromoglycate. <i>Soft Matter</i> , 2014, 10, 6571-6581.	2.7	114
29	Aggregation, pretransitional behavior, and optical properties in the isotropic phase of lyotropic chromonic liquid crystals studied in high magnetic fields. <i>Soft Matter</i> , 2013, 9, 9487.	2.7	18
30	Differential and integral extended Jones matrices for oblique light propagation through a deformed crystal. <i>Physical Review A</i> , 2013, 87, .	2.5	5
31	Elasticity of Lyotropic Chromonic Liquid Crystals Probed by Director Reorientation in a Magnetic Field. <i>Physical Review Letters</i> , 2012, 109, 037801.	7.8	120
32	Electro-Optic Effects in Colloidal Dispersion of Metal Nano-Rods in Dielectric Fluid. <i>Materials</i> , 2011, 4, 390-416.	2.9	20
33	Double helical defects in smectic A and smectic A* phases. <i>Liquid Crystals</i> , 2010, 37, 1047-1057.	2.2	8
34	Helical defects in smectic- $A$ and smectic- $A^*$ phases. <i>Physical Review E</i> , 2010, 82, 031704.	2.1	9
35	Surface Alignment and Anchoring Transitions in Nematic Lyotropic Chromonic Liquid Crystal. <i>Physical Review Letters</i> , 2010, 105, 017801.	7.8	68
36	Lyotropic chromonic liquid crystal semiconductors for water-solution processable organic electronics. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	57

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37	Electrically reconfigurable optical metamaterials based on orientationally ordered dispersions of metal nano-rods in dielectric fluids. Proceedings of SPIE, 2010, , .	0.8	3
38	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
39	Imperfect focal conic domains in A smectics: a textural analysis. Liquid Crystals, 2008, 35, 609-624.	2.2	16
40	Polarizing Properties of Functional Optical Films Based on Lyotropic Chromonic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2007, 467, 181-194.	0.9	16
41	Kinked Focal Conic Domains in a SmA. Molecular Crystals and Liquid Crystals, 2007, 477, 43-53.	0.9	8
42	Selective light-induced desorption: The mechanism of photoalignment of liquid crystals at adsorbing solid surfaces. Europhysics Letters, 2006, 75, 448-454.	2.0	8
43	Conoscopic Patterns for Uniaxial Gyrotropic Crystals in the Vicinity of Isotropic Point. , 2006, , .		2
44	Imperfections in focal conic domains: the role of dislocations. Philosophical Magazine, 2006, 86, 4439-4458.	1.6	22
45	Liquid crystal helical ribbons as isometric textures. European Physical Journal E, 2005, 16, 37-47.	1.6	35
46	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
47	Pretransitional fluctuations in the isotropic phase of a lyotropic chromonic liquid crystal. Physical Review E, 2004, 70, 051706.	2.1	58
48	Rheological properties of chiral liquid crystals possessing a cholestericâ€“smectic A transition. Liquid Crystals, 2004, 31, 593-599.	2.2	13
49	Dislocations and Disclinations in Mesomorphic Phases. Dislocations in Solids, 2004, , 147-271.	1.6	25
50	Comment on â€œSelf-Organized Periodic Photonic Structure in a Nonchiral Liquid Crystalâ€“. Physical Review Letters, 2004, 93, 109401.	7.8	21
51	Textural analysis of a mesophase with banana shaped molecules. European Physical Journal E, 2003, 12, 581-591.	1.6	24
52	Defects in a TGBA phase: A theoretical approach. European Physical Journal E, 2002, 8, 67-78.	1.6	10
53	Identification of a TGBA liquid crystal phase via its defects. European Physical Journal E, 2001, 5, 353-357.	1.6	17
54	Determination of nematic polar anchoring from retardation versus voltage measurements. Applied Physics Letters, 1999, 75, 202-204.	3.3	61

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55	Nematic polar anchoring strength measured by electric field techniques. Journal of Applied Physics, 1999, 86, 4199-4213.	2.5	122
56	<title>Interface between the L3 (sponge) phase and a solid substrate</title>. , 1998, 3488, 156.		1
57	<title>Surface influence on the optical properties of the isotropic phase of a chiral liquid crystal</title>. , 1998, 3488, 149.		0
58	<title>Observation of magneto-optical effects in blue phase system</title>. , 1998, , .		0
59	Brine-Rich Corner of the Phase Diagram of the Ternary System Cetylpyridinium Chloride~Hexanol~Brine. Langmuir, 1996, 12, 5011-5015.	3.5	10
60	Defects in Degenerate Hybrid Aligned Nematic Liquid Crystals. Europhysics Letters, 1990, 12, 135-141.	2.0	55
61	Helical Smectic A. Europhysics Letters, 1990, 13, 313-318.	2.0	68
62	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