

# Valerii V Vashchenko

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7578886/publications.pdf>

Version: 2024-02-01

74  
papers

660  
citations

567281

15  
h-index

610901

24  
g-index

78  
all docs

78  
docs citations

78  
times ranked

604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photosensitive chiral dopants with high twisting power. <i>Liquid Crystals</i> , 1994, 16, 877-882.	2.2	78
2	Thermodynamically Stable Dispersions of Quantum Dots in a Nematic Liquid Crystal. <i>Langmuir</i> , 2013, 29, 9301-9309.	3.5	73
3	Magnetic actuation of a thermodynamically stable colloid of ferromagnetic nanoparticles in a liquid crystal. <i>Soft Matter</i> , 2016, 12, 6601-6609.	2.7	33
4	New Chiral Dopant Possessing High Twisting Power. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 509, 300/[1042]-308/[1050].	0.9	30
5	Quantum Rod On-Chip LEDs for Display Backlights with Efficacy of $149 \text{ lm/W} <sup>1</sup>$ : A Step toward $200 \text{ lm/W} <sup>1</sup>$ . <i>Advanced Materials</i> , 2021, 33, e2104685.	21.0	30
6	The nano-scale pitch ferroelectric liquid crystal materials for modern display and photonic application employing highly effective chiral components: Trifluoromethylalkyl diesters of p-terphenyldicarboxylic acid. <i>Journal of Molecular Liquids</i> , 2019, 281, 186-195.	4.9	28
7	Inkjet-printed aligned quantum rod enhancement films for their application in liquid crystal displays. <i>Nanoscale</i> , 2019, 11, 20837-20846.	5.6	26
8	Ligand Shell Engineering to Achieve Optimal Photoalignment of Semiconductor Quantum Rods for Liquid Crystal Displays. <i>Advanced Functional Materials</i> , 2019, 29, 1805094.	14.9	25
9	Dispersion and aggregation of quantum dots in polymer-inorganic hybrid films. <i>Thin Solid Films</i> , 2013, 537, 226-230.	1.8	24
10	Dispersion of magnetic nanoparticles in a polymorphic liquid crystal. <i>Liquid Crystals</i> , 2012, 39, 1512-1526.	2.2	23
11	Dielectric properties of magnetic nanoparticles <sup>TM</sup> suspension in a ferroelectric liquid crystal. <i>Liquid Crystals</i> , 2015, 42, 334-343.	2.2	21
12	Thermally Stable Quantum Rods, Covering Full Visible Range for Display and Lighting Application. <i>Small</i> , 2021, 17, e2004487.	10.0	20
13	Progress toward blue-emitting (460-475 nm) nanomaterials in display applications. <i>Nanophotonics</i> , 2021, 10, 1801-1836.	6.0	20
14	Ultrashort helix pitch antiferroelectric liquid crystals based on chiral esters of terphenyldicarboxylic acid. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10339-10346.	5.5	16
15	Stable bright perovskite nanoparticle thin porous films for color enhancement in modern liquid crystal displays. <i>Nanoscale</i> , 2021, 13, 6400-6409.	5.6	16
16	Formulation of a Composite System of Liquid Crystals and Light-Emitting Semiconductor Quantum Rods: From Assemblies in Solution to Photoaligned Films. <i>Advanced Materials Technologies</i> , 2019, 4, 1900695.	5.8	13
17	Towards New Oligomesogenic Phosphonic Acids as Stabilizers of Nanoparticles Colloids in Nematic Liquid Crystals. <i>Synlett</i> , 2015, 26, 1905-1910.	1.8	10
18	Inkjet-Printed, Flexible Full-Color Photoluminescence-Type Color Filters for Displays. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	10

#	ARTICLE	IF	CITATIONS
19	Piezoelectric and flexoelectric effects in ferroelectric liquid crystals. <i>Physical Review E</i> , 2012, 86, 031705.	2.1	9
20	Surface magnetic anisotropy of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles with a giant low-temperature hysteresis. <i>Low Temperature Physics</i> , 2013, 39, 365-369.	0.6	9
21	A synthetic strategy toward branched oligomesogenic phosphonic acids: comparison of alternative pathways. <i>Tetrahedron Letters</i> , 2014, 55, 275-278.	1.4	9
22	Ferromagnetic nanoparticles in a ferroelectric liquid crystal: Properties of stable colloids in homogeneous cells. <i>Journal of Molecular Liquids</i> , 2018, 267, 353-362.	4.9	9
23	Retro-aldol reactions in micellar media. <i>Monatshefte für Chemie</i> , 2012, 143, 1545-1549.	1.8	8
24	Unidirectionally aligned bright quantum rods films, using T-shape ligands, for LCD application. <i>Nano Research</i> , 2022, 15, 5392-5401.	10.4	8
25	New (1R,4R)-2-arylidene-p-menthan-3-ones with a bridging ester group in the arylidene fragment. Synthesis and behavior in liquid-crystalline systems. <i>Russian Chemical Bulletin</i> , 2003, 52, 2406-2418.	1.5	7
26	New Chiral Esters, Diastereomeric 2-(4-Carboxybenzylidene)-p-Menthane-3-One Derivatives, as Components of LC Systems with Induced Helical Structure. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 364, 691-701.	0.3	6
27	New N-Arylidene (S)-1-Phenylethylamines as the Components of Induced Short-Pitch Cholesterics. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 357, 43-54.	0.3	6
28	Light Scattering of Short Helix Pitch Ferroelectric Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 510, 12/[1146]-20/[1154].	0.9	6
29	Recent Progress in Selenophenes Synthesis from Inorganic Se-Precursors. <i>Current Organic Synthesis</i> , 2017, 14, .	1.3	6
30	p-Terphenyl-containing symmetric tetraesters for nano-scale pitch ferroelectric liquid crystal materials. <i>Journal of Molecular Liquids</i> , 2022, 356, 119051.	4.9	6
31	Conformations of Z- and E-isomers of some chiral (1R,4R)-2-arylidene-p-menthan-3-ones. <i>Russian Chemical Bulletin</i> , 2001, 50, 1596-1604.	1.5	5
32	Polymorphism of anhydrous cadmium oxalate CdC <sub>2</sub> O <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , 2017, 726, 751-757.	5.5	5
33	<title>New chiral E and Z isomers of the 1R,4R-2-arylidene-p-menthane-3-ones in induced cholesteric and ferroelectric liquid crystals</title>. , 2001, , .		4
34	Ferroelectric liquid crystal mixtures containing chiral ether and ester compounds with the 2-arylidene-p-menthan-3-one skeleton. , 2002, , .		4
35	Impact of dendritic interface modifiers on phase behavior of polyvinylcarbazol-CdSe/ZnS nanocomposite films. <i>Colloid and Polymer Science</i> , 2014, 292, 707-713.	2.1	4
36	Use of X-ray diffraction data in stereochemical studies of (âˆ—)-menthone reactions with aromatic aldehydes. <i>Journal of Structural Chemistry</i> , 1994, 35, 688-696.	1.0	3

#	ARTICLE	IF	CITATIONS
37	Chiral $\beta$ -hydroxycarbonyl compounds based on (?)-menthone: structure and behavior in liquid crystalline systems. Russian Chemical Bulletin, 1995, 44, 1200-1209.	1.5	3
38	Rearrangement products of some 1R,4R-2-arylidene-p-menthan-3-ones in acidic media, their structures, and conformational analysis. Russian Chemical Bulletin, 2000, 49, 1218-1230.	1.5	3
39	Molecular and crystal structures of 1R,4R-cis-2-(4-phenylbenzylidene)-n-menthan-3-one. Crystallography Reports, 2001, 46, 214-218.	0.6	3
40	New Chiral Ether Derivatives of 2-Arylidene- <i>p</i> -Menthane-3-Ones as Components of Induced Ferroelectric Systems. Molecular Crystals and Liquid Crystals, 2001, 364, 557-565.	0.3	3
41	Liquid Crystalline 4,4'-diaryl-2,2'-bithiazoles. Molecular Crystals and Liquid Crystals, 2011, 542, 115/[637]-122/[644].	0.9	3
42	Syntheses of (R)- and (S)-enantiomeric 1,1,1-trifluoromethyl-2-alkanols with high enantiomeric purity controlled through derivatization with l-menthyl phthalate. Tetrahedron Letters, 2015, 56, 5956-5959.	1.4	3
43	Tandem crystallization strategies for resolution of 3,3-trifluorolactic acid [CF <sub>3</sub> CH(OH)COOH] by chiral benzylamines. Chirality, 2019, 31, 979-991.	2.6	3
44	P404: Photoaligned Quantum Rods with $\pi$ -Shaped Ligands Based on Liquid Crystal Polymer Matrix. Digest of Technical Papers SID International Symposium, 2020, 51, 1745-1747.	0.3	3
45	Versatile approaches to a library of building blocks based on 5-acylthiazole skeleton. Synthetic Communications, 2020, 50, 3616-3628.	2.1	3
46	Molecular and crystal structures of chiral 2-(4-phenylbenzylidene)-3-methyl-6-isopropylcyclohexanone 6-bromo derivative. Crystallography Reports, 2001, 46, 980-985.	0.6	2
47	Molecular and Crystal Structure of (1R)-2-arylidene- <i>p</i> -(4-menthen)-3-ones. Journal of Structural Chemistry, 2002, 43, 330-337.	1.0	2
48	Synthesis of 4-[(1R,4R)-3-Oxo- <i>p</i> -menthan-2-ylidenemethyl]benzoic Acid and Its Esters. Russian Journal of General Chemistry, 2005, 75, 622-627.	0.8	2
49	Influence of Chiral Dopant Molecular Structure on Ferroelectric Liquid Crystal Parameters. Ferroelectrics, 2006, 343, 33-40.	0.6	2
50	P403: Photo Aligned Quantum Rod films by Inkjet Printing. Digest of Technical Papers SID International Symposium, 2018, 49, 847-849.	0.3	2
51	A facile non-injection phosphorus-free synthesis of semiconductor nanoparticles using new selenium precursors. CrystEngComm, 2020, 22, 786-793.	2.6	2
52	Quantum Rods: Thermally Stable Quantum Rods, Covering Full Visible Range for Display and Lighting Application (Small 3/2021). Small, 2021, 17, 2170011.	10.0	2
53	51.2: Photoalignment and Photopatterning of Highly Concentrated Quantum Rods Embedded in Liquid Crystal Polymer Matrix. Digest of Technical Papers SID International Symposium, 2021, 52, 339-340.	0.3	2
54	Crystal structures of the flavonoid Oroxylin A and the regioisomers Negletein and Wogonin. Acta Crystallographica Section C, Structural Chemistry, 2020, 76, 490-499.	0.5	2

#	ARTICLE	IF	CITATIONS
55	Molecular and crystal structures of stereoisomeric 2R,3R,6S-2-(1- <sup>2</sup> S-hydroxy-1-biphenyl)- and 2R,3R,6S-2-(1- <sup>2</sup> R-hydroxy-1-biphenyl)methyl-3-methyl-6-isopropylcyclohexanones. Russian Chemical Bulletin, 1998, 47, 2182-2188.	1.5	1
56	Molecular and crystal structures of 1R,4R-cis-2-(4-hydroxybenzylidene)-p-menthan-3-one. Crystallography Reports, 2002, 47, 805-811.	0.6	1
57	Unusual pathway of alkylation of 2-(4-bromobenzylidene)-p-menthan-3-one with ethyl bromoacetate. Russian Chemical Bulletin, 2007, 56, 2506-2509.	1.5	1
58	P&#155: Stabilization of Perovskite Quantum Dots in Polymer Matrix in Thin Porous Film for Display Technology. Digest of Technical Papers SID International Symposium, 2020, 51, 1971-1974.	0.3	1
59	P&#86: Ink&#jet Printed Stable Full&#Color Perovskite and Quantum Rod Color Filter. Digest of Technical Papers SID International Symposium, 2022, 53, 1347-1350.	0.3	1
60	Molecular structure and conformational analysis of chiral (?) -3-(4-bromobenzylidene)-1-isopropyl-2-methoxy-4-methylcyclohexene. Russian Chemical Bulletin, 1995, 44, 2331-2336.	1.5	0
61	<title>Liquid crystal composites with PSCT</title>. , 1998, , .		0
62	<title>Molecular and crystalline structure of some new derivatives of p-menthane-3-ones: chiral components of liquid crystalline systems</title>. , 2001, , .		0
63	Title is missing!. Journal of Structural Chemistry, 2001, 42, 84-91.	1.0	0
64	Induced cholesteric systems based on some cyano derivatives as host phases. , 2002, , .		0
65	Chiral ethers with the 2-arylidene- p -menthan-3-one skeleton as components of induced cholesteric systems. , 2002, 4759, 159.		0
66	Title is missing!. Journal of Structural Chemistry, 2002, 43, 1011-1018.	1.0	0
67	40.3: Inversion Charge for Memory Display under Passively Addressed Driving using Photo&#aligned Ferroelectric Liquid Crystal. Digest of Technical Papers SID International Symposium, 2019, 50, 449-451.	0.3	0
68	P&#9.11: Photo Aligned Quantum Rod Films by Printing with Extended Color Gamut. Digest of Technical Papers SID International Symposium, 2019, 50, 884-884.	0.3	0
69	13&#4: Passively Addressed Helix&#Free Ferroelectric Liquid Crystal for Fast Response Bi&#Stable Display. Digest of Technical Papers SID International Symposium, 2019, 50, 172-175.	0.3	0
70	32&#2: Surface Ligands Optimization of Semiconductor CdSe/CdS Nanorods Aligned in Liquid Crystal Polymer Matrix. Digest of Technical Papers SID International Symposium, 2019, 50, 447-449.	0.3	0
71	Photo Aligned Quantum Rod Films by ink&#jet Printing for modern LCDs with Extended Color Gamut. , 2019, , .		0
72	P&#1.12: Stabilization of Perovskite Quantum Dots in Polymer Matrix in Thin Porous Film for Display Technology. Digest of Technical Papers SID International Symposium, 2020, 51, 1771-1774.	0.3	0

#	ARTICLE	IF	CITATIONS
73	P&C111: Red, Green, and Blue Quantum Rod Based Electroluminescent Light-Emitting Diodes. Digest of Technical Papers SID International Symposium, 2020, 51, 1768-1770.	0.3	0
74	26.2: <i>Invited Paper:</i> Photo&Caligned Red, Green and Blue QRs for the LCD Brightness Enhancement. Digest of Technical Papers SID International Symposium, 2021, 52, 168-168.	0.3	0