

# Alexey Yu Bobrovsky

## List of Publications by Year in descending order

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148  
papers

3,492  
citations

147801

31  
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182427

51  
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148  
all docs

148  
docs citations

148  
times ranked

2168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoactive liquid crystalline polymer systems with light-controllable structure and optical properties. <i>Progress in Polymer Science</i> , 2003, 28, 729-836.	24.7	410
2	Cholesteric Liquid Crystal Materials for Tunable Diffractive Optics. <i>Advanced Optical Materials</i> , 2018, 6, 1800335.	7.3	160
3	Liquid crystalline carbosilane dendrimers: First generation. <i>Liquid Crystals</i> , 1996, 21, 1-12.	2.2	154
4	Rotatable Diffraction Gratings Based on Cholesteric Liquid Crystals with Phototunable Helix Pitch. <i>Advanced Optical Materials</i> , 2015, 3, 1273-1279.	7.3	84
5	Light controllable tuning and switching of lasing in chiral liquid crystals. <i>Optics Express</i> , 2005, 13, 2358.	3.4	81
6	Optically and Electrically Controlled Circularly Polarized Emission from Cholesteric Liquid Crystal Materials Doped with Semiconductor Quantum Dots. <i>Advanced Materials</i> , 2012, 24, 6216-6222.	21.0	78
7	Photosensitive Cholesteric Copolymers with Spiropyran-Containing Side Groups: Novel Materials for Optical Data Recording. <i>Advanced Materials</i> , 1999, 11, 1025-1028.	21.0	74
8	Photochemical and Photoorientational Behavior of Liquid Crystalline Carbosilane Dendrimer with Azobenzene Terminal Groups. <i>Journal of Physical Chemistry B</i> , 2002, 106, 540-546.	2.6	69
9	New Chiral Nematic Materials with Photovisible Helical Supramolecular Structure for Reversible Optical Data Recording. <i>Advanced Materials</i> , 2000, 12, 1180-1183.	21.0	65
10	Cholesteric Mixtures with Photochemically Tunable, Circularly Polarized Fluorescence. <i>Advanced Materials</i> , 2003, 15, 282-287.	21.0	64
11	Comparative study of photoorientation phenomena in photosensitive azobenzene-containing homopolymers and copolymers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 163, 347-358.	3.9	55
12	First Photosensitive Liquid Crystalline Dendrimer: Synthesis, Phase Behavior, and Photochemical Properties. <i>Chemistry of Materials</i> , 2001, 13, 1447-1452.	6.7	53
13	Effect of Molecular Structure on Chiro-Optical and Photo-Optical Properties of Smart Liquid Crystalline Polyacrylates. <i>Macromolecules</i> , 2013, 46, 4276-4284.	4.8	53
14	Chiral Nematic Polymer Mixture Containing Crosslinker and Photosensitive Chiral Dopant: New Type of Materials with Tunable Photo-Optical Properties. <i>Advanced Functional Materials</i> , 2002, 12, 367.	14.9	51
15	Photochromism in mixtures of liquid crystalline chiral copolymers with a photosensitive chiral dopant. <i>Liquid Crystals</i> , 1998, 25, 679-687.	2.2	50
16	New Chiral-Photochromic Dopant with Variable Helical Twisting Power and its use in Photosensitive Cholesteric Materials. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 363, 35-50.	0.3	50
17	Photochromic azobenzene functionalised banana-shaped calamitic dimers and trimers: mesophase behaviour and photo-orientational phenomena. <i>Liquid Crystals</i> , 2011, 38, 1531-1550.	2.2	48
18	Liquid crystalline polymers: development trends and photocontrollable materials. <i>Russian Chemical Reviews</i> , 2017, 86, 1024-1072.	6.5	47

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19	Light-responsive chiral photochromic liquid crystalline polymer systems. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 155, 3-19.	3.9	46
20	Photo-optical properties of new combined chiral photochromic liquid crystalline copolymers. <i>Liquid Crystals</i> , 1998, 25, 393-401.	2.2	45
21	A study of photooptical processes in photosensitive cholesteric azobenzene-containing polymer mixture under an action of the polarized and nonpolarized light. <i>Polymer</i> , 2006, 47, 4310-4317.	3.8	44
22	New chiral photochromic menthone-containing homopolymers and copolymers - synthesis, phase behaviour and photo-optical properties. <i>Liquid Crystals</i> , 1999, 26, 1749-1765.	2.2	43
23	Phase diagrams and optical properties of new menthyl-containing LC copolymers forming chiral mesophases. <i>Liquid Crystals</i> , 1998, 24, 489-500.	2.2	41
24	Induction of the cholesteric mesophase in hydrogen-bonded blends of polymers with a low molecular mass chiral dopant. <i>Liquid Crystals</i> , 1999, 26, 581-587.	2.2	40
25	Novel Generation of Liquid Crystalline Photoactuators Based on Stretched Porous Polyethylene Films. <i>Macromolecular Rapid Communications</i> , 2012, 33, 991-997.	3.9	39
26	New photosensitive polymer composites based on oriented porous polyethylene filled with azobenzene-containing LC mixture: reversible photomodulation of dichroism and birefringence. <i>Liquid Crystals</i> , 2008, 35, 533-539.	2.2	38
27	Azobenzene-containing LC polymethacrylates highly photosensitive in broad spectral range. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2962-2970.	2.3	38
28	Effect of Molecular Structure and Thermal Treatment on Photo-optical Properties of Photochromic Azobenzene-containing Polymer Films. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 342-352.	2.2	35
29	Order Parameters $\langle P^2 \rangle$ , $\langle P^4 \rangle$ , and $\langle P^6 \rangle$ of Aligned Nematic Liquid-Crystalline Polymer As Determined by Numerical Simulation of Electron Paramagnetic Resonance Spectra. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6010-6016.	2.6	34
30	A new type of multifunctional material based on dual photochromism of ternary chiral photochromic liquid crystalline copolymers for optical data recording and storage. <i>Journal of Materials Chemistry</i> , 2000, 10, 1075-1081.	6.7	33
31	Porous structure, permeability, and mechanical properties of polyolefin microporous films. <i>Physics of the Solid State</i> , 2012, 54, 1907-1916.	0.6	33
32	Liquid crystals photoalignment by films of side-chain azobenzene-containing polymers with different molecular structure. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 218, 137-142.	3.9	29
33	A Novel Type of Crown Ether-Containing Metal Ions Optical Sensors Based on Polymer-Stabilized Cholesteric Liquid Crystalline Films. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1875-1881.	3.9	29
34	Dual photorecording on cholesteric azobenzene-containing LC polymer films using helix pitch phototuning and holographic grating recording. <i>Journal of Materials Chemistry</i> , 2012, 22, 6245.	6.7	29
35	Combined Scanning Probe Nanotomography and Optical Microspectroscopy: A Correlative Technique for 3D Characterization of Nanomaterials. <i>ACS Nano</i> , 2013, 7, 8953-8962.	14.6	29
36	Novel type of combined photopatternable and electro-switchable polymer-stabilized cholesteric materials. <i>Journal of Materials Chemistry</i> , 2009, 19, 366-372.	6.7	28

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37	Photosensitive cholesteric polymers with azobenzene-containing chiral groups and mixtures of cholesteric copolymer with chiral-photochromic dopants. <i>Liquid Crystals</i> , 2001, 28, 919-931.	2.2	27
38	Photochemistry and photoorientational phenomena in carbosilane dendrimers with terminal azobenzene groups. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 1539-1546.	2.2	26
39	Electroinduced Diffraction Gratings in Cholesteric Polymer with Phototunable Helix Pitch. <i>Advanced Optical Materials</i> , 2015, 3, 1462-1469.	7.3	25
40	Chiral Nematic Copolymers with Photoreversible and Irreversible Changing of Helical Supramolecular Structure Pitch. <i>Chemistry of Materials</i> , 2001, 13, 1998-2001.	6.7	24
41	Ordering phenomena and photoorientation processes in photochromic thin films of LC chiral azobenzene-containing polymer systems. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 206, 46-52.	3.9	24
42	Cholesteric Polymer Scaffolds Filled with Azobenzene-Containing Nematic Mixture with Phototunable Optical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27227-27235.	8.0	24
43	Dynamic Diffractive Patterns in Helix-Inverting Cholesteric Liquid Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10895-10904.	8.0	24
44	Thermo-, chiro- and photo-optical properties of cholesteric azobenzene-containing copolymer in thin films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 172, 140-145.	3.9	23
45	Glass-forming photoactive cholesteric oligomers doped with quantum dots: novel materials with phototunable circularly polarised emission. <i>Liquid Crystals</i> , 2011, 38, 737-742.	2.2	23
46	Polarised light-induced orientation and reorientation processes and unexpected "memory effect"™ in side-chain azobenzene-containing LC polymers. <i>Liquid Crystals</i> , 2012, 39, 339-345.	2.2	23
47	Photo-Orientation Phenomena in Photochromic Liquid Crystalline Azobenzene-Containing Polymethacrylates with Different Spacer Length. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700127.	2.2	23
48	Gel formation and photoactive properties of azobenzene-containing polymer in liquid crystal mixture. <i>Colloid and Polymer Science</i> , 2010, 288, 1375-1384.	2.1	22
49	Full-Color Polymer Cholesteric Composites for Transmission and Reflection Holographic Gratings. <i>Advanced Optical Materials</i> , 2017, 5, 1700314.	7.3	22
50	Photopatternable fluorescent polymer composites based on stretched porous polyethylene and photopolymerizable liquid crystal mixture. <i>Journal of Materials Chemistry</i> , 2008, 18, 691.	6.7	21
51	Photochromic LC "polymer composites containing azobenzene chromophores with thermally stable Z-isomers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4482-4489.	5.5	20
52	Photosensitive cholesteric copolymers with spiropyran-containing side groups I. Phase behaviour and photo-optical properties. <i>Liquid Crystals</i> , 2000, 27, 57-62.	2.2	19
53	Cholesteric mixture containing a chiral azobenzene-based dopant: material with reversible photoswitching of the pitch of the helix. <i>Liquid Crystals</i> , 2000, 27, 1381-1387.	2.2	19
54	Atomic force microscopy study of surface topography of films of cholesteric oligomer- and polymer-based mixtures with photovisible helix pitch. <i>Physical Review E</i> , 2013, 87, 012503.	2.1	19

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55	An Effective Method for the Preparation of Stable LC Composites with High Concentration of Quantum Dots. <i>Advanced Optical Materials</i> , 2014, 2, 1167-1172.	7.3	19
56	Photo-optical properties of amorphous and crystalline films of azobenzene-containing photochromes with bent-shaped molecular structure. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 316, 75-87.	3.9	19
57	Photochromic LC copolymers containing azobenzene and crown ether groups. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6532-6541.	2.3	18
58	Chiroptical and photooptical properties of a novel side-chain azobenzene-containing LC polymer. <i>Monatshefte für Chemie</i> , 2009, 140, 789-799.	1.8	18
59	New azobenzene-based chiral-photochromic substances with thermally stable Z-isomers and their use for the induction of a cholesteric mesophase with a phototunable helix pitch. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8622-8629.	5.5	18
60	Stable Selective Gratings in LC Polymer by Photoinduced Helix Pitch Modulation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 2554-2560.	8.0	18
61	The Induced SAPHase in New Menthyl-Containing Copolymers. <i>Macromolecules</i> , 1998, 31, 5800-5804.	4.8	17
62	Interaction of light with a NLC dendrimer system. <i>Liquid Crystals</i> , 2009, 36, 101-107.	2.2	17
63	A novel generation of photoactive comb-shaped polyamides for the photoalignment of liquid crystals. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4031-4041.	2.3	17
64	AFM study of laser-induced crater formation in films of azobenzene-containing photochromic nematic polymer and cholesteric mixture. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 275, 30-36.	3.9	17
65	Photocontrollable Photonic Crystals Based on Porous Silicon Filled with Photochromic Liquid Crystalline Mixture. <i>Advanced Optical Materials</i> , 2020, 8, 2001267.	7.3	17
66	Cholesteric mesophase of the hydrogen-bonded blends of liquid crystalline ionogenic copolymers with a low molecular weight chiral dopant. <i>Journal of Polymer Science Part A</i> , 1999, 37, 3215-3225.	2.3	15
67	Field-responsive chiral-photochromic side-chain liquid-crystalline polymers. <i>Polymer International</i> , 2000, 49, 931-936.	3.1	15
68	A Combination of Selective Light Reflection and Fluorescence Modulation in a Cholesteric Polymer Matrix. <i>Macromolecular Rapid Communications</i> , 2005, 26, 177-182.	3.9	15
69	Comparative study of holographic recording in cholesteric and nematic azo-containing side-chain polymers. <i>Liquid Crystals</i> , 2007, 34, 1-7.	2.2	15
70	Mesomorphic and structural properties of liquid crystalline side-chain polymethacrylates: from smectic C* to columnar phases. <i>Liquid Crystals</i> , 2019, 46, 825-834.	2.2	15
71	The effect of spacer and alkyl tail lengths on the photoorientation processes in amorphousized films of azobenzene-containing liquid crystalline polymethacrylates. <i>Liquid Crystals</i> , 2020, 47, 377-383.	2.2	15
72	Laser-induced formation of craters and hills in azobenzene-containing polymethacrylate films. <i>Soft Matter</i> , 2020, 16, 5398-5405.	2.7	15

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73	Cholesteric Polymer Guest-Host Mixture with Circularly Polarized Fluorescence: Two Ways for Phototuning of Polarization and Its Intensity. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2331-2336.	2.5	14
74	Mixture of cholesteric copolymer with dithienylethene photochromic dopant: a new material combining optical properties of cholesterics with photochromism. <i>Journal of Materials Chemistry</i> , 2001, 11, 2004-2007.	6.7	13
75	Photo-optical behaviour of a photosensitive chiral nematic copolymer and mixtures containing non-chiral photoactive azobenzene groups. <i>Liquid Crystals</i> , 2003, 30, 671-680.	2.2	13
76	Photoinduced textural and optical changes in a cholesteric copolymer with azobenzene-containing side groups. <i>Liquid Crystals</i> , 2004, 31, 351-359.	2.2	13
77	Photochromic composites based on porous stretched polyethylene filled by nematic liquid crystal mixtures. <i>Polymers for Advanced Technologies</i> , 2010, 21, 100-112.	3.2	13
78	Features of Double-Spiral Valley-Hills Surface Topography Formation in Photochromic Cholesteric Oligomer-Based Films and Their Changes Under Polarized Light Action. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 2639-2646.	2.2	13
79	Liquid Crystalline Azobenzene-Containing Polymer as a Matrix for Distributed Feedback Lasers. <i>ACS Photonics</i> , 2014, 1, 885-893.	6.6	13
80	Quantum dot-polymer composites based on nanoporous polypropylene films with different draw ratios. <i>European Polymer Journal</i> , 2016, 82, 93-101.	5.4	13
81	Photocontrollable Deformations of Polymer Particles in Elastic Matrix. <i>Advanced Optical Materials</i> , 2019, 7, 1901486.	7.3	13
82	Photochromic Composite for Random Lasing Based on Porous Polypropylene Infiltrated with Azobenzene-Containing Liquid Crystalline Mixture. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26595-26602.	8.0	12
83	The peculiarities of the photoorientation processes in azobenzene-containing liquid crystalline homo- and co-dendrimers. <i>Polymer</i> , 2015, 56, 263-270.	3.8	12
84	Photoinduced Changes of Surface Topography in Amorphous, Liquid-Crystalline, and Crystalline Films of Bent-Core Azobenzene-Containing Substance. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5073-5082.	2.6	12
85	Mechano-Optical Response of Novel Polymer Composites Based on Elastic Polyurethane Matrix Filled with Low-Molar-Mass Cholesteric Droplets. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100262.	3.6	12
86	Induction of a chiral nematic phase in smectic polymers. <i>Colloid and Polymer Science</i> , 2000, 278, 671-676.	2.1	11
87	Influence of the cation type on the DFB lasing performance of dye-doped azobenzene-containing polyelectrolytes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8546-8553.	5.5	11
88	Polyethylene-based composites containing high concentration of quantum dots. <i>Colloid and Polymer Science</i> , 2015, 293, 1545-1551.	2.1	11
89	Self-Assembling Behavior of Smart Nanocomposite System: Ferroelectric Liquid Crystal Confined by Stretched Porous Polyethylene Film. <i>Nanomaterials</i> , 2020, 10, 1498.	4.1	11
90	New types of multifunctional liquid crystalline photochromic copolymers for optical data recording and storage. <i>Macromolecular Symposia</i> , 2001, 174, 319-332.	0.7	10

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91	Dual photochromism of copolymers containing two different types of photoisomerizable side groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 138, 261-267.	3.9	10
92	Photo-orientation phenomena in photosensitive chiral nematic copolymers. <i>Liquid Crystals</i> , 2002, 29, 1469-1476.	2.2	10
93	Cholesteric mixture containing chiral-photochromic and diarylethene dopants as novel material with dual photochromism. <i>Polymers for Advanced Technologies</i> , 2002, 13, 595-600.	3.2	10
94	Surface Relief Changes in Cholesteric Cyclosiloxane Oligomer Films at Different Temperatures. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12708-12713.	2.6	10
95	Direct Observation of Changes in Focal Conic Domains of Cholesteric Films Induced by Ultraviolet Irradiation. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5407-5412.	2.6	10
96	Photo-optical properties of polymer composites based on stretched porous polyethylene filled with photoactive cholesteric liquid crystal. <i>Liquid Crystals</i> , 2007, 34, 791-797.	2.2	9
97	Photoinduced phase transitions and helix untwisting in the SmC* phase of a novel cinnamoyl-based liquid crystal. <i>Liquid Crystals</i> , 2009, 36, 989-997.	2.2	9
98	Photochromic and fluorescent LC gels based on a bent-shaped azobenzene-containing gelator. <i>RSC Advances</i> , 2015, 5, 56891-56895.	3.6	9
99	Terbium and europium aromatic carboxylates in the polystyrene matrix: The first metal-organic-based material for high-temperature thermometry. <i>Journal of Luminescence</i> , 2021, 239, 118400.	3.1	9
100	Photosensitive cholesteric copolymers with spiropyran-containing side groups II. Kinetic features of the photo- and thermo-chromic processes. <i>Liquid Crystals</i> , 2000, 27, 219-223.	2.2	8
101	Immiscible blend of cholesteric copolymers as a new type of material with photoregulated optical properties. <i>Journal of Materials Chemistry</i> , 2002, 12, 1284-1287.	6.7	8
102	Polarization holographic grating recording in the cholesteric azobenzene-containing films with the phototunable helix pitch. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 773-781.	2.1	8
103	Peculiarities and mechanism of surface topography changes in photochromic cholesteric oligomer-based films. <i>Colloid and Polymer Science</i> , 2014, 292, 1567-1575.	2.1	8
104	New Variants of Photosensitive Polymeric Mixtures: Reversible and Irreversible Photoregulation of Helical Supramolecular Structure. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 2895-2901.	2.2	7
105	Glass-forming cholesteric mixtures with photosensitive anthracene-containing fluorescent dopants. <i>Liquid Crystals</i> , 2005, 32, 691-697.	2.2	7
106	A Study of the Photoorientation Phenomena in Cholesteric Polymer Systems Containing Photochromic Diarylethene Derivatives. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 770-778.	2.2	7
107	Chiral mesophases of new menthyl containing copolymers. <i>Ferroelectrics</i> , 1998, 212, 387-394.	0.6	6
108	New Type of Chiral Photochromic Liquid Crystal Polymers for Colour Photo-Optical Recording. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 332, 173-180.	0.3	6

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109	Fluorescent and photooptical properties of H-bonded LC composites based on stilbazole derivative. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 221, 22-29.	3.9	6
110	Orienting effect of light on dye-doped liquid-crystal polymer. <i>Bulletin of the Lebedev Physics Institute</i> , 2015, 42, 225-228.	0.6	6
111	The orientation order of liquid-crystalline polymer, measured by ESR and optical dichroism techniques. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 819-825.	2.1	6
112	Photo-orientation Processes in Liquid Crystalline Polymethacrylates with Side Azobenzene Groups Having Lateral Methyl Substituents. <i>Macromolecules</i> , 2021, 54, 10499-10509.	4.8	6
113	Kinetics of Helix Untwisting in Photosensitive Cholesteric Polymer Mixtures: Influence of Molecular Mass and Ordered Phase Formation. <i>Macromolecules</i> , 2006, 39, 6367-6370.	4.8	5
114	Photo-optical properties of photopolymerizable cholesteric compositions. <i>Colloid and Polymer Science</i> , 2007, 285, 681-686.	2.1	5
115	Ferroelectric liquid crystal composites based on the porous stretched polyethylene films. <i>Liquid Crystals</i> , 2010, 37, 517-525.	2.2	5
116	Laser-induced holographic light scattering in a liquid-crystalline azobenzene-containing polymer. <i>Physical Review E</i> , 2012, 85, 011704.	2.1	5
117	Light-induced orientation transition in nematic liquid crystalline polymer. <i>Bulletin of the Lebedev Physics Institute</i> , 2016, 43, 128-131.	0.6	5
118	Photooptical Properties of Polymethacrylates Having Cyanoazobenzene-Containing Side Groups with Lateral Methyl Substituents and Different Spacer Length. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1337-1342.	2.1	5
119	Photonic properties of polymer-stabilized photosensitive cholesteric liquid crystal studied by combination of optical activity, transmission and fluorescence. <i>Liquid Crystals</i> , 2021, 48, 1339-1348.	2.2	5
120	The smectogenity as a crucial factor of broadening of the selective light reflection peak in cholesteric photopolymerizable mixtures. <i>Liquid Crystals</i> , 0, , 1-7.	2.2	5
121	Crown-ether and azobenzene-containing liquid crystalline polymers: An influence of macromolecular architecture on optical properties and photo-orientation processes. <i>Journal of Polymer Science Part A</i> , 2011, 49, 625-633.	2.3	4
122	Novel cholesteric materials doped with CdSe/ZnS quantum dots with photo- and electro-tunable circularly polarized emission. <i>Proceedings of SPIE</i> , 2012, , .	0.8	4
123	High-resolution 3D structural and optical analyses of hybrid or composite materials by means of scanning probe microscopy combined with the ultramicrotome technique: an example of application to engineering of liquid crystals doped with fluorescent quantum dots. <i>Proceedings of SPIE</i> , 2013, , .	0.8	4
124	Optical Fredericksz transition and director field structure recording in dye-doped nematic liquid-crystalline polymer. <i>Journal of Molecular Liquids</i> , 2019, 276, 275-281.	4.9	4
125	Phase Structure Recording in a Nematic Side-Chain Liquid-Crystalline Polymer. <i>Polymers</i> , 2020, 12, 356.	4.5	4
126	Novel atropisomeric binaphthyl-containing liquid crystalline copolymers forming chiral nematic phases. <i>Liquid Crystals</i> , 1997, 22, 451-457.	2.2	3



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127	Photo-optical properties and photo-orientation phenomena in an immiscible blend of cholesteric copolymer with azobenzene-containing polymer. <i>Liquid Crystals</i> , 2007, 34, 411-419.	2.2	3
128	Photochromic liquid-crystalline copolymers containing crown ether groups. <i>Russian Chemical Bulletin</i> , 2007, 56, 2414-2425.	1.5	3
129	Photoorientation in hydrogen-bonded blends of liquid-crystalline polymers with a low-molecular photochromic dopant. <i>Russian Chemical Bulletin</i> , 2008, 57, 330-336.	1.5	3
130	Zernike filter based on orientational optical nonlinearity of liquid crystalline systems. <i>Instruments and Experimental Techniques</i> , 2016, 59, 562-564.	0.5	3
131	Novel atropisomeric binaphthol containing comb-shaped copolymers forming chiral nematic phases. <i>Polymer Engineering and Science</i> , 1997, 37, 945-951.	3.1	2
132	New Principle of Optical Data Recording Based on Reversible Transition $\lambda$ -Selective Reflection-Absorbance in Photochromic Cholesteric Copolymers. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 352, 429-437.	0.3	2
133	Unusual electro-optical behaviour of the nematic polyacrylate. <i>Liquid Crystals</i> , 0, , 1-7.	2.2	2
134	Sign-alternating optical reorientation in nematic liquid crystals with low-molar-mass and polymeric absorbing bis-azobenzene dopants. <i>Journal of Molecular Liquids</i> , 2021, 339, 117141.	4.9	2
135	Eu-doped cholesteric mixtures with a highly thermosensitive circular polarization of luminescence. <i>Journal of Molecular Liquids</i> , 2021, 341, 117431.	4.9	2
136	First energy transfer in cholesteric mixtures: a new type of phototunable fluorescent material. <i>Liquid Crystals</i> , 2006, 33, 907-912.	2.2	1
137	Microstructure and Optical Properties of Composites Consisting of Nanoporous Stretched Polypropylene Doped with Liquid Crystals and Quantum Dots at a High Concentration. <i>Oriental Journal of Chemistry</i> , 2016, 32, 2863-2872.	0.3	1
138	Scanning near-field optical nanotomography: a new method of multiparametric 3D investigation of nanostructural materials. <i>Technical Physics Letters</i> , 2016, 42, 171-174.	0.7	1
139	ABERRATIONAL PATTERN DURING THE SELF-ACTION OF THE $\text{E}_{\text{e}01}$ MODE OF LIGHT RADIATION IN NEMATIC LIQUID CRYSTALS. <i>Bulletin of the Lebedev Physics Institute</i> , 2020, 47, 149-155.	0.6	1
140	Optimization of the photo-orientation rate of an azobenzene-containing polymer based on a kinetic model of photoinduced ordering. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 16690-16697.	2.8	1
141	A comparative study of photo-optical behaviour of photosensitive chiral copolymers with cholesteric mesophases induced in nematogenic and smectogenic matrices. <i>Liquid Crystals</i> , 2000, 27, 1097-1101.	2.2	0
142	Light-Controllable Chiral Photochromic Multifunctional Liquid Crystal Polymers. <i>Materials Research Society Symposia Proceedings</i> , 2001, 709, 1.	0.1	0
143	Photoactive Cholesteric Polymeric Material With Dual Photochromism. <i>Materials Research Society Symposia Proceedings</i> , 2001, 709, 1.	0.1	0
144	Cholesteric copolymers and mixtures containing dithienylethene photochromic fragments. <i>E-Polymers</i> , 2003, 3, .	3.0	0

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