

Vera Hamplova

List of Publications by Year in descending order

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199
papers

3,436
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136740

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199
all docs

199
docs citations

199
times ranked

1527
citing authors

#	ARTICLE	IF	CITATIONS
1	Smectic-A* \leftrightarrow smectic-C* transition in a ferroelectric liquid crystal without smectic layer shrinkage. <i>Physical Review E</i> , 1999, 60, 598-602.	0.8	92
2	Lead bromide and ternary alkali lead bromide single crystals \leftrightarrow growth and emission properties. <i>Chemical Physics Letters</i> , 1996, 258, 518-522.	1.2	80
3	Effect of multilactate chiral part of liquid crystalline molecule on mesomorphic behaviour. <i>Journal of Molecular Structure</i> , 2008, 892, 151-157.	1.8	80
4	New series of ferroelectric liquid crystals with two or three chiral centres exhibiting antiferroelectric and hexatic phases. <i>Liquid Crystals</i> , 2001, 28, 1203-1209.	0.9	70
5	Dielectric behaviour of the composite system: multiwall carbon nanotubes dispersed in ferroelectric liquid crystal. <i>Phase Transitions</i> , 2011, 84, 850-857.	0.6	64
6	An effect of structurally non-compatible additive on the properties of a long-pitch orthoconic antiferroelectric mixture. <i>Phase Transitions</i> , 2010, 83, 551-563.	0.6	57
7	Photosensitive self-assembling materials as functional dopants for organic photovoltaic cells. <i>RSC Advances</i> , 2016, 6, 11577-11590.	1.7	57
8	The effect of a lateral substituent on the mesomorphic properties in a series of ferroelectric liquid crystals with a 2-alkoxypropionate unit. <i>Liquid Crystals</i> , 1997, 22, 557-561.	0.9	54
9	New series of ferroelectric liquid crystals with four ester groups. <i>Liquid Crystals</i> , 1998, 24, 599-605.	0.9	54
10	New ferroelectric and antiferroelectric liquid crystalline materials containing differing numbers of lactate units. <i>Liquid Crystals</i> , 2003, 30, 627-631.	0.9	53
11	Effect of Molecular Structure on Chiro-Optical and Photo-Optical Properties of Smart Liquid Crystalline Polyacrylates. <i>Macromolecules</i> , 2013, 46, 4276-4284.	2.2	53
12	Photosensitive chiral self-assembling materials: significant effects of small lateral substituents. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5326-5333.	2.7	53
13	Effect of chiral photosensitive liquid crystalline dopants on the performance of organic solar cells. <i>Solid-State Electronics</i> , 2015, 104, 53-60.	0.8	50
14	First liquid single crystal elastomer containing lactic acid derivative as chiral co-monomer: Synthesis and properties. <i>Polymer</i> , 2011, 52, 4490-4497.	1.8	44
15	New chlorine \leftrightarrow substituted liquid crystals possessing frustrated TGB _A and SmQ phases. <i>Liquid Crystals</i> , 2008, 35, 641-651.	0.9	41
16	Helix twist inversion in ferroelectric liquid crystals with one chiral centre. <i>Liquid Crystals</i> , 1995, 19, 589-594.	0.9	39
17	New antiferroelectric liquid crystalline materials containing a keto group and two lactate groups. <i>Liquid Crystals</i> , 2003, 30, 1463-1469.	0.9	39
18	Polarization splay as the origin of modulation in the B ₁ and B ₇ smectic phases of bent-core molecules. <i>Physical Review E</i> , 2008, 77, 021703.	0.8	39

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19	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.	0.9	38
20	First photoresponsive liquid-crystalline materials with small layer shrinkage at the transition to the ferroelectric phase. <i>Journal of Materials Chemistry</i> , 2009, 19, 3992.	6.7	38
21	Azobenzene-containing LC polymethacrylates highly photosensitive in broad spectral range. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2962-2970.	2.5	38
22	Low extraction recovery of fullerene from carbonaceous geological materials spiked with C60. <i>Carbon</i> , 2005, 43, 1909-1917.	5.4	37
23	New ferroelectric liquid crystalline materials containing one and two lactate groups attached to the molecular core. <i>Liquid Crystals</i> , 2005, 32, 565-572.	0.9	36
24	Thermal analysis of binary liquid crystalline mixtures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 431-441.	2.0	36
25	Thermotropic and lyotropic behaviour of new liquid-crystalline materials with different hydrophilic groups: synthesis and mesomorphic properties. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 425-436.	1.3	36
26	AFM study of advanced composite materials for organic photovoltaic cells with active layer based on P3HT:PCBM and chiral photosensitive liquid crystalline dopants. <i>Liquid Crystals</i> , 2015, 42, 964-972.	0.9	36
27	New ferroelectric liquid crystalline materials with an azo group in the molecular core. <i>Liquid Crystals</i> , 2004, 31, 821-830.	0.9	35
28	Polar liquid crystalline monomers with two or three lactate groups for the preparation of side chain polysiloxanes. <i>Liquid Crystals</i> , 2006, 33, 559-566.	0.9	35
29	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.	1.1	35
30	Functional Photochromic Methylhydrosiloxane-Based Side-Chain Liquid-Crystalline Polymers. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 742-752.	1.1	35
31	Electrically switchable birefringent self-assembled nanocomposites: ferroelectric liquid crystal doped with the multiwall carbon nanotubes. <i>Liquid Crystals</i> , 2020, 47, 1379-1389.	0.9	34
32	Synthesis and mesomorphic properties of a new ferroelectric liquid crystal with 2-alkoxypropionate chiral groups. <i>Ferroelectrics</i> , 1993, 148, 103-110.	0.3	33
33	Re-entrant ferroelectric phases in binary mixtures of ferroelectric and antiferroelectric homologues of a series with three chiral centers. <i>Journal of Chemical Physics</i> , 2001, 115, 9036-9041.	1.2	33
34	Trap levels in PbWO ₄ crystals: correlation with luminescence decay kinetics. <i>Chemical Physics Letters</i> , 1996, 260, 418-422.	1.2	32
35	New series of chiral ferroelectric liquid crystals with the keto group attached to the molecule core. <i>Liquid Crystals</i> , 2003, 30, 493-497.	0.9	32
36	Effect of lateral methoxy substitution on mesomorphic and structural properties of ferroelectric liquid crystals. <i>Liquid Crystals</i> , 2008, 35, 1329-1337.	0.9	32

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37	New series of chiral smectic chlorinated liquid crystals. <i>Ferroelectrics</i> , 2000, 243, 27-35.	0.3	31
38	Effect of lateral substitution by fluorine and bromine atoms in ferroelectric liquid crystalline materials containing a 2-alkoxypropanoate unit. <i>Liquid Crystals</i> , 2007, 34, 1185-1192.	0.9	31
39	NEW FERROELECTRIC LIQUID CRYSTALLINE SUBSTANCES WITH LATERAL GROUPS IN THE CORE. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 366, 547-556.	0.3	30
40	Effect of co-monomers' relative concentration on self-assembling behaviour of side-chain liquid crystalline elastomers. <i>RSC Advances</i> , 2014, 4, 44056-44064.	1.7	30
41	The effect of lactate unit number in compounds with azo group in the molecular core. <i>Liquid Crystals</i> , 2011, 38, 649-655.	0.9	29
42	Orientalional Order of a Liquid Crystal with Three Chiral Centers by a Combined ¹³ C NMR and DFT Approach. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9787-9794.	1.2	28
43	Synthesis and mesomorphic properties of new compounds exhibiting TGBA and TGBC liquid crystalline phases. <i>Liquid Crystals</i> , 2008, 35, 287-298.	0.9	28
44	Design of polar self-assembling lactic acid derivatives possessing submicrometre helical pitch. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 333-341.	1.5	28
45	Effect of molecular structure on dielectric and electro-optic properties of chiral liquid crystals based on lactic acid derivatives. <i>Journal of Molecular Liquids</i> , 2019, 283, 472-481.	2.3	28
46	Conformational Properties and Orientalional Order of a de Vries Liquid Crystal Investigated through NMR Spectroscopy. <i>ChemPhysChem</i> , 2014, 15, 1485-1495.	1.0	27
47	Reactivity of fullerenes with chemically generated singlet oxygen. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 2437-2438.	2.0	24
48	Ferroelectric-like behaviour of the SmCP phase in liquid crystalline compounds with asymmetrical bent-core molecules. <i>Journal of Materials Chemistry</i> , 2006, 16, 2031-2038.	6.7	24
49	Growth and Characterization of Crystals of Incongruently Melting Ternary Alkali Lead Chlorides. <i>Physica Status Solidi A</i> , 1993, 135, 565-571.	1.7	23
50	Switching of chirality from racemic to homochiral state in new liquid crystalline monomers with bent-core molecules. <i>Liquid Crystals</i> , 2005, 32, 1115-1123.	0.9	23
51	Orientalional order parameters of a de Vries-type ferroelectric liquid crystal obtained by polarized Raman spectroscopy and x-ray diffraction. <i>Physical Review E</i> , 2012, 85, 061703.	0.8	23
52	Photo-Orientalional Phenomena in Photochromic Liquid Crystalline Azobenzene-Containing Polymethacrylates with Different Spacer Length. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700127.	1.1	23
53	Gel formation and photoactive properties of azobenzene-containing polymer in liquid crystal mixture. <i>Colloid and Polymer Science</i> , 2010, 288, 1375-1384.	1.0	22
54	Single-photon photolysis of C60, C70, C76, and C84 in solutions. <i>Chemical Physics Letters</i> , 2001, 335, 539-544.	1.2	21

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55	Direct transition from the SmA phase to the tilted hexatic phase in liquid crystals with several lactate units. <i>Liquid Crystals</i> , 2004, 31, 1131-1141.	0.9	21
56	New compounds with a TGBA-TGBC-SmC* phase sequence. <i>Liquid Crystals</i> , 2010, 37, 129-137.	0.9	21
57	Effect of alkyl chains length on properties of ferroelectric liquid crystals with the keto group attached to the molecule core. <i>Phase Transitions</i> , 2012, 85, 849-860.	0.6	21
58	Tuning the phase diagrams: the miscibility studies of multilactate liquid crystalline compounds. <i>Phase Transitions</i> , 2016, 89, 885-893.	0.6	21
59	The effect of a lateral methoxy group on the mesomorphic properties of ferroelectric liquid crystals. <i>Liquid Crystals</i> , 1995, 19, 775-778.	0.9	20
60	New banana-type liquid crystal with a methoxy group substituted near the central ring. <i>Journal of Materials Chemistry</i> , 2002, 12, 2221-2224.	6.7	20
61	Reentrant orthogonal smectic A phase below a tilted smectic C phase in a chiral compound. <i>Physical Review E</i> , 2011, 83, 020701.	0.8	20
62	Ferroelectric, antiferroelectric and TGB phases in lactic acid derivatives. <i>Liquid Crystals</i> , 2012, 39, 477-486.	0.9	20
63	Photochromic LC polymer composites containing azobenzene chromophores with thermally stable Z-isomers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4482-4489.	2.7	20
64	Eutectic behaviour of binary mixtures composed of two isomeric lactic acid derivatives. <i>Ferroelectrics</i> , 2016, 495, 105-115.	0.3	20
65	Chiral liquid crystalline compounds with a re-entrant SmA* phase. <i>Journal of Materials Chemistry</i> , 2011, 21, 14807.	6.7	19
66	Effect of the chiral chain length on structural and phase properties of ferroelectric liquid crystals. <i>Phase Transitions</i> , 2011, 84, 380-390.	0.6	19
67	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.	2.0	19
68	Organic nanotubes created from mesogenic derivatives. <i>Nanoscale Advances</i> , 2019, 1, 2835-2839.	2.2	19
69	Self-assembling behaviour of new functional photosensitive cinnamoyl-based reactive mesogens. <i>Liquid Crystals</i> , 2020, 47, 2276-2291.	0.9	19
70	Fast degradation of fullerenes by ultraviolet laser radiation. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1993, 57, 83-84.	1.5	18
71	Thermal analysis and X-ray studies of chiral ferroelectric liquid crystalline materials and their binary mixtures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 82, 519-523.	2.0	18
72	Nature of smectic A*-C* phase transitions in a series of ferroelectric liquid crystals with little smectic layer shrinkage. <i>Journal of Chemical Physics</i> , 2007, 126, 054902.	1.2	18

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73	Chiroptical and photooptical properties of a novel side-chain azobenzene-containing LC polymer. Monatshefte für Chemie, 2009, 140, 789-799.	0.9	18
74	¹ H NMR Relaxometry Study of a Rod-Like Chiral Liquid Crystal in Its Isotropic, Cholesteric, TGBA*, and TGBC* Phases. Journal of Physical Chemistry B, 2010, 114, 11993-12001.	1.2	18
75	Chiral HPLC for a study of the optical purity of new liquid crystalline materials derived from lactic acid. Phase Transitions, 2014, 87, 758-769.	0.6	18
76	Synthesis, characterisation and functionalisation of ZnO and TiO ₂ nanostructures: used as dopants in liquid crystal polymers. Liquid Crystals, 2014, 41, 91-100.	0.9	18
77	Anomalous phase sequence in new chiral liquid crystalline materials. Liquid Crystals, 2014, 41, 176-183.	0.9	18
78	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. Journal of Materials Chemistry C, 2014, 2, 8622-8629.	2.7	18
79	Chiral separation of novel diazenes on a polysaccharide-based stationary phase in the reversed-phase mode. Journal of Separation Science, 2017, 40, 1465-1469.	1.3	18
80	The B2â€“B7 phase transition in symmetrical bentâ€“shaped mesogens with methoxy substitution. Liquid Crystals, 2005, 32, 967-975.	0.9	17
81	Nanocomposite of superparamagnetic maghemite nanoparticles and ferroelectric liquid crystal. RSC Advances, 2013, 3, 10919.	1.7	17
82	Effect of lactate group in the chiral chain of new compounds exhibiting short-pitch cholesteric or TGBA phase. Liquid Crystals, 2018, 45, 1155-1163.	0.9	17
83	Photocontrollable Photonic Crystals Based on Porous Silicon Filled with Photochromic Liquid Crystalline Mixture. Advanced Optical Materials, 2020, 8, 2001267.	3.6	17
84	Synthesis and Mesomorphic Properties of New Chiral Liquid-Crystalline Diols. Molecular Crystals and Liquid Crystals, 2005, 428, 49-63.	0.4	16
85	Effect of a bulky lateral substitution by chlorine atom and methoxy group on self-assembling properties of lactic acid derivatives. Materials Chemistry and Physics, 2014, 146, 18-25.	2.0	16
86	Phase diagrams and physical properties of binary ferroelectric mixtures based on a series of chiral Î±-cyanocinnamate derivatives. Liquid Crystals, 2002, 29, 1347-1354.	0.9	15
87	Phase Diagrams of Binary Mixtures of Antiferroelectric and Ferroelectric Compounds with Lactate Units in the Mesogenic Core. Ferroelectrics, 2004, 309, 103-109.	0.3	15
88	Phase diagram of new lactic acid derivatives exhibiting ferroâ€“and antiferroelectric phases. Liquid Crystals, 2008, 35, 975-985.	0.9	15
89	Orientalional and structural properties of ferroelectric liquid crystal with a broad temperature range in the SmC* phase by ¹³ C NMR, x-ray scattering and dielectric spectroscopy. Journal of Physics Condensed Matter, 2009, 21, 035102.	0.7	15
90	A Liquidâ€“Crystalline Coâ€“Polysiloxane with Asymmetric Bent Side Chains. Macromolecular Chemistry and Physics, 2011, 212, 191-197.	1.1	15

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91	Antiferroelectric phase in liquid crystalline compounds containing an azo group in their molecular core. <i>Liquid Crystals</i> , 2011, 38, 309-315.	0.9	15
92	Brief overview on ² H NMR studies of polysiloxane-based side-chain nematic elastomers. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 649-655.	1.1	15
93	Mesomorphic and structural properties of liquid crystalline side-chain polymethacrylates: from smectic C* to columnar phases. <i>Liquid Crystals</i> , 2019, 46, 825-834.	0.9	15
94	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.	0.9	15
95	Laser-induced formation of craters and hills in azobenzene-containing polymethacrylate films. <i>Soft Matter</i> , 2020, 16, 5398-5405.	1.2	15
96	Study of de Vries behaviour of the smectic A*–smectic C* phase transition. <i>Phase Transitions</i> , 2010, 83, 1026-1036.	0.6	14
97	Mesomorphic and structural properties of liquid crystal possessing a chiral lactate unit. <i>Journal of Molecular Structure</i> , 2012, 1013, 119-125.	1.8	14
98	Lactic Acid Derivatives with Three-Phenyl Ring Molecular Core: Design and Mesomorphic Properties. <i>Ferroelectrics</i> , 2014, 468, 18-27.	0.3	14
99	Photoluminescence of KMgF ₃ :Tl ⁺ . <i>Journal of Physics and Chemistry of Solids</i> , 1994, 55, 1-7.	1.9	13
100	Unique effect of an electric field on a new liquid crystalline lactic acid derivative. <i>Soft Matter</i> , 2015, 11, 4649-4657.	1.2	13
101	Fullerene production driven by long-pulses of near-infrared laser radiation. <i>Carbon</i> , 1996, 34, 363-368.	5.4	12
102	New chlorine-substituted ferroelectric liquid crystals with four aromatic rings in the mesogenic core. <i>Liquid Crystals</i> , 2002, 29, 1435-1439.	0.9	12
103	Frustrated phases induced in binary mixtures of hockey-stick and chiral rod-like mesogens. <i>Soft Matter</i> , 2013, 9, 647-653.	1.2	12
104	Chiral HPLC and physical characterisation of orthoconic antiferroelectric liquid crystals. <i>Liquid Crystals</i> , 2016, 43, 1244-1250.	0.9	12
105	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.	1.2	12
106	New Series of Ferroelectric Liquid Crystals Incorporating Stilbene Unit in the Core. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 332, 181-188.	0.3	11
107	The Structure-Properties Relations in de Vries SmA Materials. <i>Ferroelectrics</i> , 2004, 311, 11-19.	0.3	11
108	Rheological characterisation of a liquid-crystalline diol and its dependence with an applied electric field. <i>Liquid Crystals</i> , 2012, 39, 191-197.	0.9	11

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109	Self-assembling properties of lactic acid derivative with several ester linkages in the molecular core. <i>Phase Transitions</i> , 2015, 88, 745-757.	0.6	11
110	Lactic acid derivatives with terphenyl molecular core. <i>Liquid Crystals</i> , 2016, 43, 1251-1258.	0.9	11
111	Self-Assembling Behavior of Smart Nanocomposite System: Ferroelectric Liquid Crystal Confined by Stretched Porous Polyethylene Film. <i>Nanomaterials</i> , 2020, 10, 1498.	1.9	11
112	Effective control of optical purity by chiral HPLC separation for ester-based liquid crystalline materials forming anticlinic smectic phases. <i>Liquid Crystals</i> , 2021, 48, 43-53.	0.9	11
113	Thermal Properties of Liquid-Crystalline Diols and Corresponding Bis-Urethanes with Mesogenic Groups of Various Structures in Side Chains. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 392, 17-30.	0.4	10
114	Optimizing Conditions for Ultrasound Extraction of Fullerenes from Coal Matrices. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2009, 17, 109-122.	1.0	10
115	Variety of mesophases in compounds with an increasing number of lactate units in the chiral chain. <i>Liquid Crystals</i> , 2013, 40, 14-21.	0.9	10
116	The effect of the alkyl chain length on the mesomorphic properties of new lactic acid derivatives. <i>Liquid Crystals</i> , 2014, 41, 1179-1187.	0.9	10
117	Chiral smectogens with four-phenyl-ring molecular core, laterally substituted by iodine atom. <i>Liquid Crystals</i> , 2015, 42, 404-411.	0.9	10
118	Effect of the applied electric field on new cholesterics with extremely short pitch. <i>Liquid Crystals</i> , 2018, 45, 634-640.	0.9	10
119	New smectogens with (<i>S</i>)-2-methylbutyl lactate group in the terminal chain and chlorine-substituted molecular core. <i>Liquid Crystals</i> , 2019, 46, 1035-1042.	0.9	10
120	Fullerene Cages Breakdown Induced in Solution by Ultraviolet Radiation: Experimental Support for the "Window" Formation in Fullerenes?. <i>The Journal of Physical Chemistry</i> , 1995, 99, 8200-8201.	2.9	9
121	Synthesis and mesomorphic properties of (<i>S</i>)-lactic acid derivatives containing several ester linkages in the core. <i>Ferroelectrics</i> , 1998, 212, 341-348.	0.3	9
122	The Role of the Oxygen Molecule in the Photolysis of Fullerenes. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 2000, 8, 289-318.	0.6	9
123	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.	0.9	9
124	Smectic A \leftrightarrow Smectic C* Transition in a α -Vries-Liquid Crystal by 2H NMR. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 103-110.	0.4	9
125	Highly tilted smectogens with bromine-substituted molecular core. <i>Liquid Crystals</i> , 2013, 40, 321-328.	0.9	9
126	A new approach to the chiral separation of novel diazenes. <i>Journal of Separation Science</i> , 2015, 38, 4211-4215.	1.3	9

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127	Photochromic and fluorescent LC gels based on a bent-shaped azobenzene-containing gelator. RSC Advances, 2015, 5, 56891-56895.	1.7	9
128	Dielectric Properties of Chiral Ferroelectric Liquid Crystalline Compounds with Three Aromatic Rings Connected by Ester Groups. Crystals, 2019, 9, 473.	1.0	9
129	Comparison of the efficiency of the laser photolysis of C60 and C70 fullerenes in solution. Chemical Physics Letters, 1994, 231, 314-318.	1.2	8
130	Synthesis and Dielectric Properties of New Liquid Crystalline Substances with a Lactate Chiral Group. Molecular Crystals and Liquid Crystals, 1999, 328, 317-324.	0.3	8
131	Synthesis and Liquid Crystalline Properties of (S)-[4-(n-alkyloxy-benzoyloxyphenyl)-4-(2-(n-alkyloxy)propionyloxy)benzoate. Molecular Crystals and Liquid Crystals, 2001, 365, 569-580.	0.3	8
132	Determination of the oxygen balance in oxide superconductors by a photometric method. Fresenius' Journal of Analytical Chemistry, 1993, 347, 478-479.	1.5	7
133	Transitions from the SmC* or SmC* A Phases to the Tilted Hexatic Phases Studied by the Dielectric Spectroscopy. Ferroelectrics, 2002, 277, 209-218.	0.3	7
134	Ferroelectric Liquid Crystals with Extremely Wide SmC* Phase Range. Ferroelectrics, 2002, 276, 45-54.	0.3	7
135	E-T Phase Diagrams of an Antiferroelectric Liquid Crystal with Re-Entrant Smectic C* Phase. Ferroelectrics, 2008, 364, 13-19.	0.3	7
136	Binary mixtures of liquid crystalline compounds with a reentrant smectic-A* phase. Physical Review E, 2011, 84, 061704.	0.8	7
137	Design of calamitic self-assembling reactive mesogenic units: mesomorphic behaviour and rheological characterisation. Liquid Crystals, 2018, 45, 561-573.	0.9	7
138	Influence of photoinduced isomerization on the chiral separation of novel liquid crystalline materials with a diazene moiety. Journal of Separation Science, 2018, 41, 3034-3041.	1.3	7
139	Mesomorphic, structural, electro-optic and dynamic properties of lactic acid derivative and its selectively deuterated isotopomers by means of electro-optics, SAXS, 2H-NMR and neutron spin-echo spectroscopy. Liquid Crystals, 2020, 47, 1999-2015.	0.9	7
140	Helix twist inversion in the SmC* phase of lactic acid derivatives. Ferroelectrics, 1996, 179, 81-92.	0.3	6
141	Dielectric spectroscopy of the SmQ* phase. Phase Transitions, 2011, 84, 1098-1107.	0.6	6
142	Non-symmetrical bent-shaped compounds containing a chiral moiety. Liquid Crystals, 2012, 39, 1252-1260.	0.9	6
143	¹ H NMR relaxometry in the TGBA* and TGBC* phases. Ferroelectrics, 2016, 495, 17-27.	0.3	6
144	Mesomorphic properties of lactic acid derivatives and their racemic mixtures in comparison with analogous non-chiral compounds. Liquid Crystals, 2020, 47, 1516-1527.	0.9	6

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145	Photo-orientation Processes in Liquid Crystalline Polymethacrylates with Side Azobenzene Groups Having Lateral Methyl Substituents. <i>Macromolecules</i> , 2021, 54, 10499-10509.	2.2	6
146	Self-assembling discotic materials with low symmetry for organic photovoltaics. <i>Journal of Molecular Liquids</i> , 2022, 354, 118868.	2.3	6
147	Production of fullerenes by a near infrared laser. <i>European Physical Journal D</i> , 1993, 43, 193-195.	0.4	5
148	Temperature difference between bulk and surface transition in freely suspended smectic films. <i>Physical Review E</i> , 1999, 59, 6188-6191.	0.8	5
149	Liquid Crystalline Properties of S-(-)-4-(2-n-Alkoxy-Propionyloxy) Biphenyl-4-yl-n-Alkoxy-3,5-Dimethylbenzoate. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 351, 279-286.	0.3	5
150	The effect of the sample thickness on the collective modes in ferroelectric liquid crystals. <i>Ferroelectrics</i> , 2000, 241, 239-246.	0.3	5
151	Dielectric Response of Ferroelectric Liquid Crystals in Helical and Twisted Planar Samples. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 364, 353-360.	0.3	5
152	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.	2.4	5
153	A contribution to the description of the retention mechanism of metal chelates during their reversed-phase chromatography. <i>Collection of Czechoslovak Chemical Communications</i> , 1985, 50, 2221-2227.	1.0	5
154	Ferroelectric Liquid Crystals Containing the Cyano Group. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 260, 241-246.	0.3	4
155	Unusual behavior of binary mixtures of ferroelectric and antiferroelectric liquid crystals with three chiral centers. , 2002, , .		4
156	Study of ferroelectric liquid crystals with 2-alkoxypropionate chiral group by X-ray measurements. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 412, 19-28.	0.4	4
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