Ewa Gorecka

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6260423/publications.pdf

Version: 2024-02-01

289	7,990	53794	79698
papers	citations	45 h-index	73 g-index

297	297	297	4161
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antiferroelectric Chiral Smectic Phases Responsible for the Trislable Switching in MHPOBC. Japanese Journal of Applied Physics, 1989, 28, L1265-L1268.	1.5	697
2	Molecular Orientational Structures in Ferroelectric, Ferrielectric and Antiferroelectric Smectic Liquid Crystal Phases as Studied by Conoscope Observation. Japanese Journal of Applied Physics, 1990, 29, 131-137.	1.5	239
3	Heliconical smectic phases formed by achiral molecules. Nature Communications, 2018, 9, 228.	12.8	167
4	Dynamically self-assembled silver nanoparticles as a thermally tunable metamaterial. Nature Communications, 2015, 6, 6590.	12.8	154
5	Antiferroelectric liquid crystals: Interplay of simplicity and complexity. Reviews of Modern Physics, 2010, 82, 897-937.	45.6	141
6	Bent-core liquid crystals forming two- and three-dimensional modulated structures. Physical Review E, 2003, 67, 031702.	2.1	130
7	Why do non-symmetric dimers intercalate? The synthesis and characterisation of the Î±-(4-benzylidene-substituted-aniline-4â€²-oxy)-Ï‰-(2-methylbutyl-4â€²-(4â€³-phenyl)benzoateoxy)alkanes. Liquid Crystals, 2009, 36, 1431-1441.	2.2	117
8	Axially Polar Columnar Phase Made of Polycatenar Bent-Shaped Molecules. Journal of the American Chemical Society, 2004, 126, 15946-15947.	13.7	115
9	Multi-level chirality in liquid crystals formed by achiral molecules. Nature Communications, 2019, 10, 1922.	12.8	103
10	A Twistâ€Bend Nematic (N_{TB}) Phase of Chiral Materials. Angewandte Chemie - International Edition, 2015, 54, 10155-10159.	13.8	97
11	Spontaneous chirality through mixing achiral components: a twist-bend nematic phase driven by hydrogen-bonding between unlike components. Chemical Communications, 2018, 54, 3383-3386.	4.1	97
12	Liquidâ€Crystalline Phases Made of Gold Nanoparticles. Angewandte Chemie - International Edition, 2009, 48, 5167-5169.	13.8	96
13	Switchable columnar phases. Journal of Materials Chemistry, 2006, 16, 2412.	6.7	91
14	Electric-Field-Induced Polar Biaxial Order in a Nontilted Smectic Phase of an Asymmetric Bent-Core Liquid Crystal. Physical Review Letters, 2006, 97, 113901.	7.8	87
15	Sulfur-linked cyanobiphenyl-based liquid crystal dimers and the twist-bend nematic phase. Liquid Crystals, 2019, 46, 1595-1609.	2.2	85
16	Structure studies of the nematic phase formed by bent-core molecules. Physical Review E, 2009, 80, 030701.	2.1	84
17	Antiferroelectric phase and tristable-switching in MHPOBC. Ferroelectrics, 1991, 114, 187-197.	0.6	83
18	The role of a terminal chain in promoting the twist-bend nematic phase: the synthesis and characterisation of the 1-(4-cyanobiphenyl-4â€²-yl)-6-(4-alkyloxyanilinebenzylidene-4â€²-oxy)hexanes. Liquid Crystals, 2018, 45, 2341-2351.	2.2	83

#	Article	IF	Citations
19	Do the short helices exist in the nematic TB phase?. Liquid Crystals, 2015, 42, 1-7.	2.2	82
20	Nematic phase formed by banana-shaped molecules. Liquid Crystals, 2000, 27, 429-436.	2.2	80
21	Design and Assembly of pH-Sensitive Lipidic Cubic Phase Matrices for Drug Release. Langmuir, 2014, 30, 1383-1390.	3.5	80
22	Ferroelectric Mesophase with Randomized Interlayer Structure. Physical Review Letters, 2003, 91, 185501.	7.8	79
23	Molecular curvature, specific intermolecular interactions and the twist-bend nematic phase: the synthesis and characterisation of the 1-(4-cyanobiphenyl-4â€²-yl)-6-(4-alkylanilinebenzylidene-4â€²-oxy)hexanes (CB6O.m). Soft Matter, 2019, 15, 3188-3197.	2.7	78
24	Electric-Field-Induced Transitions among Antiferroelectric, Ferrielectric and Ferroelectric Phases in a Chiral Smectic MHPOBC. Japanese Journal of Applied Physics, 1990, 29, L1473-L1476.	1.5	75
25	Ferroelectric phases in a chiral bent-core smectic liquid crystal: Dielectric and optical second-harmonic generation measurements. Physical Review E, 2000, 62, R4524-R4527.	2.1	74
26	Enantiomeric excess dependence of the phase diagram of antiferroelectric liquid crystals. Physical Review E, 2002, 65, 061703.	2.1	73
27	Structure of nanoscale-pitch helical phases: blue phase and twist-bend nematic phase resolved by resonant soft X-ray scattering. Soft Matter, 2017, 13, 6694-6699.	2.7	70
28	Ideal Liquid Crystal Display Mode Using Achiral Banana-Shaped Liquid Crystals. Japanese Journal of Applied Physics, 2006, 45, L282-L284.	1.5	67
29	Theoretical and experimental study of the intermediate Sm CFIâ€Š2* and the Sm CFIâ€Š1* phases in antiferroelectric liquid crystals. Journal of Chemical Physics, 2002, 117, 1817-1826.	3.0	66
30	Switching Mechanism in Polar Columnar Mesophases Made of Bent-Core Molecules. ChemPhysChem, 2005, 6, 1087-1093.	2.1	62
31	Lyotropic Cubic Phases for Drug Delivery: Diffusion and Sustained Release from the Mesophase Evaluated by Electrochemical Methods. Langmuir, 2015, 31, 12753-12761.	3.5	62
32	Multiple Polar and Nonâ€polar Nematic Phases. ChemPhysChem, 2021, 22, 2506-2510.	2.1	62
33	Strong two-photon absorption enhancement in a unique bis-porphyrin bearing a diketopyrrolopyrrole unit. Chemical Communications, 2013, 49, 8368.	4.1	61
34	Oddâ€“even effect in biphenylâ€based symmetrical dimers with methylene spacer â€“ evidence of the B4 phase. Liquid Crystals, 2008, 35, 401-406.	2.2	56
35	Multidimensional structures made by gold nanoparticles with shape-adaptive grafting layers. Soft Matter, 2010, 6, 5397.	2.7	55
36	Monoolein Cubic Phase Gels and Cubosomes Doped with Magnetic Nanoparticlesâ€“Hybrid Materials for Controlled Drug Release. ACS Applied Materials & Interfaces, 2017, 9, 2796-2805.	8.0	55

#	Article	IF	Citations
37	The Chiral Twistâ€Bend Nematic Phase (N*_{TB}). Chemistry - A European Journal, 2019, 25, 13329-13335.	3.3	55
38	Physical gels made of liquid crystalline B4 phase. Chemical Communications, 2013, 49, 3119.	4.1	54
39	Metal Nanoparticles with Liquidâ€Crystalline Ligands: Controlling Nanoparticle Superlattice Structure and Properties. ChemPhysChem, 2014, 15, 1283-1295.	2.1	52
40	Liquid crystal phases formed by asymmetric bent-shaped molecules. Journal of Materials Chemistry, 2003, 13, 2132.	6.7	50
41	Eu³⁺and Tb³⁺doped LaPO₄nanorods, modified with a luminescent organic compound, exhibiting tunable multicolour emission. RSC Advances, 2014, 4, 46305-46312.	3.6	50
42	Induced Antiferroelectric Smectic-CA*Phase by Doping Ferroelectric-C*Phase with Bent-Shaped Molecules. Physical Review Letters, 2000, 85, 2526-2529.	7.8	49
43	Multiple nematic phases observed in chiral mesogenic dimers. Journal of Materials Chemistry C, 2013, 1, 46-49.	5.5	49
44	Photoresponsive helical nanofilaments of B₄ phase. Journal of Materials Chemistry C, 2014, 2, 2323-2327.	5.5	49
45	Reentrant Ferroelectricity in Liquid Crystals. Physical Review Letters, 2001, 86, 3048-3051.	7.8	47
46	Synthesis and linear and nonlinear optical properties of low-melting Ï€-extended porphyrins. Journal of Materials Chemistry C, 2013, 1, 2044.	5.5	47
47	Anion-driven mesogenicity: a comparative study of ionic liquid crystals based on the [closo-1-CB9H10]â^' and [closo-1-CB11H12]â^' clusters. Journal of Materials Chemistry, 2012, 22, 4874.	6.7	45
48	Re-entrant Isotropic Phase between Lamellar and Columnar Mesophases. Journal of the American Chemical Society, 2002, 124, 8884-8890.	13.7	44
49	Bent-core molecules with lateral halogen atoms forming tilted, synclinic and anticlinic, lamellar phases. Journal of Materials Chemistry, 2004, 14, 2374.	6.7	44
50	A nematic-polar columnar phase sequence in new bent-shaped liquid crystals based on a 7-hydroxynaphthalene-2-carboxylic acid core. Journal of Materials Chemistry, 2009, 19, 3153.	6.7	43
51	Nanoparticles in a Capillary Trap: Dynamic Self-Assembly at Fluid Interfaces. ACS Nano, 2013, 7, 8833-8839.	14.6	42
52	Modulated Structures in Bent-Core Liquid Crystals: Two Faces of One Phase. Physical Review Letters, 2007, 98, 247802.	7.8	41
53	Temperature-controlled liquid crystalline polymorphism of gold nanoparticles. Soft Matter, 2011, 7, 10561.	2.7	40
54	Ionic Strength-Controlled Deposition of Charged Nanoparticles on a Solid Substrate. Journal of Physical Chemistry C, 2011, 115, 19096-19103.	3.1	40

#	Article	IF	Citations
55	Evidence of germanium segregation in gold thin films. Surface Science, 2018, 674, 73-78.	1.9	40
56	Helix twist inversion in ferroelectric liquid crystals with one chiral centre. Liquid Crystals, 1995, 19, 589-594.	2.2	39
57	Enhanced chirality by adding achiral molecules into the chiral system. Physical Review E, 2003, 67, 061704.	2.1	38
58	Fluorinated metallomesogens â€“ lamellar versus columnar phase formation. Journal of Materials Chemistry, 2009, 19, 1395.	6.7	38
59	X-ray studies of the hexatic phase in liquid crystals with a crystal-Bâ€“hexatic-Bâ€“smectic-Aphase sequence. Physical Review E, 1994, 50, 2863-2867.	2.1	36
60	Observation of a Frustrated Phase in Mixtures of Ferroelectric and Antiferroelectric Liquid Crystals. Physical Review Letters, 1998, 81, 2946-2949.	7.8	36
61	Paraelectric-antiferroelectric phase transition in achiral liquid crystals. Physical Review E, 2005, 72, 060701.	2.1	36
62	Polar order and tilt in achiral smectic phases. Physical Review E, 2006, 74, 021702.	2.1	36
63	Polar order in columnar phase made of polycatenar bent-core molecules. Physical Review E, 2006, 73, 031704.	2.1	36
64	Phase Transition in Salt-Free Catanionic Surfactant Mixtures Induced by Temperature. Langmuir, 2010, 26, 34-40.	3.5	36
65	Flexoelectricity in chiral nematic liquid crystals as a driving mechanism for the twist-bend and splay-bend modulated phases. Physical Review E, 2014, 89, 030501.	2.1	36
66	Periodic In-Layer Director Modulations Responsible for the Stripe Texture Formation in Chiral Smectic-CPhase. Physical Review Letters, 1995, 75, 4047-4050.	7.8	35
67	Bent-shaped mesogens without an azomethine joint. Journal of Materials Chemistry, 2002, 12, 3392-3399.	6.7	35
68	Modulated general tilt structures in bent-core liquid crystals. Journal of Materials Chemistry, 2008, 18, 3044.	6.7	34
69	Optimum deposition conditions of ultrasmooth silver nanolayers. Nanoscale Research Letters, 2014, 9, 153.	5.7	34
70	Ferroelectric behavior of orthogonal smectic phase made of bent-core molecules. Physical Review E, 2011, 84, 031706.	2.1	34
71	Transition between two orthogonal polar phases in symmetric bent-core liquid crystals. Soft Matter, 2011, 7, 2895.	2.7	32
72	The molecular organization of prenylated flavonoid xanthohumol in DPPC multibilayers: X-ray diffraction and FTIR spectroscopic studies. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 213-222.	2.6	32

#	Article	IF	Citations
73	Chirality of Liquid Crystals Formed from Achiral Molecules Revealed by Resonant Xâ€Ray Scattering. Advanced Materials, 2020, 32, e1905591.	21.0	31
74	Twist-Bend Nematogenic Supramolecular Dimers and Trimers Formed by Hydrogen Bonding. Crystals, 2020, 10, 175.	2.2	31
75	Syntheses and characterization of novel asymmetric bent-core mesogens exhibiting polar smectic phases. Journal of Materials Chemistry, 2009, 19, 4240.	6.7	30
76	Incorporation of Carbon Nanotubes into a Lyotropic Liquid Crystal by Phase Separation in the Presence of a Hydrophilic Polymer. Langmuir, 2010, 26, 3562-3568.	3.5	30
77	Effect of co-monomers' relative concentration on self-assembling behaviour of side-chain liquid crystalline elastomers. RSC Advances, 2014, 4, 44056-44064.	3.6	30
78	Directed self-assembly of a helical nanofilament liquid crystal phase for use as structural color reflectors. NPG Asia Materials, 2019, 11, .	7.9	30
79	Remarkable smectic phase behaviour in odd-membered liquid crystal dimers: the CT6O.m series. Journal of Materials Chemistry C, 2021, 9, 5167-5173.	5.5	30
80	Intrinsically chiral ferronematic liquid crystals: An inversion of the helical twist sense at the chiral nematic â€“ Chiral ferronematic phase transition. Journal of Molecular Liquids, 2022, 361, 119532.	4.9	30
81	Smectic mesophases of functionalized silver and gold nanoparticles with anisotropic plasmonic properties. Chemical Communications, 2013, 49, 7845.	4.1	29
82	Thermotropic cubic and tetragonal phases made of rod-like molecules. Physical Chemistry Chemical Physics, 2014, 16, 16067-16074.	2.8	29
83	Liquid crystal dimers and the twist-bend nematic phase: On the role of spacers and terminal alkyl chains. Journal of Molecular Liquids, 2020, 320, 114391.	4.9	29
84	Molecular Packing in Double Gyroid Cubic Phases Revealed via Resonant Soft X-Ray Scattering. Physical Review Letters, 2020, 125, 027801.	7.8	29
85	Twistâ€Bend Nematic Glasses: The Synthesis and Characterisation of Pyreneâ€based Nonsymmetric Dimers. ChemPhysChem, 2021, 22, 461-470.	2.1	29
86	Modulated and intercalated smectic phases formed by dimeric molecules. Journal of Materials Chemistry, 2003, 13, 34-37.	6.7	28
87	Synthesis and mesomorphic properties of 7â€acyloxyâ€3â€(4â€acyloxyphenyl)â€4Hâ€1â€benzopyranâ€4â€one. Liquid Crystals, 2007, 34, 649-654.	2.2	28
88	Electron Density Modulations in Columnar Banana Phases. Chemistry of Materials, 2007, 19, 3027-3031.	6.7	28
89	Molecular Factors Responsible for the Formation of the Axially Polar Columnar Mesophase ColhPA. Chemistry - A European Journal, 2007, 13, 3377-3385.	3.3	28
90	A liquid-crystalline fullereneâ€“oligophenylenevinylene dyad which displays columnar mesomorphism. Soft Matter, 2011, 7, 4948.	2.7	28

#	Article	IF	Citations
91	Non-symmetric chiral isoflavone dimers: synthesis, characterisation and mesomorphic behaviour. Liquid Crystals, 2012, 39, 1041-1047.	2.2	28
92	Monolayer Filaments versus Multilayer Stacking of Bentâ€Core Molecules. Angewandte Chemie - International Edition, 2016, 55, 3468-3472.	13.8	28
93	Critical behavior of the optical birefringence at the nematic to twist-bend nematic phase transition. Physical Review E, 2018, 98, .	2.1	28
94	Phototunable Liquidâ€Crystalline Phases Made of Nanoparticles. Angewandte Chemie - International Edition, 2014, 53, 13725-13728.	13.8	27
95	Hydrogen bonding and the design of twist-bend nematogens. Journal of Molecular Liquids, 2020, 303, 112630.	4.9	27
96	Columnar Mesomorphism of Bi- and Trinuclear Ni(II), Cu(II), and VO(II)cis-Enamonoketone Complexes with Low Symmetry. Inorganic Chemistry, 2000, 39, 4879-4885.	4.0	26
97	Short-range smectic fluctuations and the flexoelectric model of modulated nematic liquid crystals. Physical Review E, 2016, 93, 022704.	2.1	26
98	First symmetrical banana compounds exhibiting SmAPR mesophase and unique transition between two orthogonal polar phases. Chemical Communications, 2009, , 6592.	4.1	25
99	H-shaped liquid crystalline dimers. Liquid Crystals, 2011, 38, 149-154.	2.2	25
100	Single-Walled Carbon Nanotube/Lyotropic Liquid Crystal Hybrid Materials Fabricated by a Phase Separation Method in the Presence of Polyelectrolyte. Langmuir, 2010, 26, 8821-8828.	3.5	24
101	Supramolecular liquid crystals exhibiting a chiral twist-bend nematic phase. Materials Advances, 2020, 1, 1622-1630.	5.4	24
102	Dielectric behavior of ferroelectric liquid crystals in the vicinity of the transition into the hexatic phase. Journal of Chemical Physics, 1999, 111, 1541-1550.	3.0	23
103	2-D Density-modulated structures in asymmetric bent-core liquid crystals. Journal of Materials Chemistry, 2008, 18, 881.	6.7	23
104	Unusual temperature dependence of smectic layer structure associated with the nematicâ€“smectic C phase transition in a hockey-stick-shaped four-ring compound. Journal of Materials Chemistry C, 2013, 1, 1562.	5.5	23
105	Structural studies of the bond-orientational order and hexaticâ€“smectic transition in liquid crystals of various compositions. Soft Matter, 2017, 13, 3240-3252.	2.7	23
106	Enaminoketones as calamitic liquid crystals with a novel hydrogen-bonded rigid core. Liquid Crystals, 1991, 10, 593-595.	2.2	22
107	Calamitic or columnar mesomorphism determined by number and position of substituents in enaminoketone Cu(II), Ni(II) and Co(II) complexes. Liquid Crystals, 1998, 25, 117-121.	2.2	22
108	Charge Transportation and Chirality in Liquid Crystalline Helical Network Phases of Achiral BTBTâ€Derived Polycatenar Molecules. Advanced Functional Materials, 2021, 31, 2102271.	14.9	22

#	Article	IF	Citations
109	Novel Series of Enaminoketone Liquid Crystals Having Hexatic Smectic B Phase. Molecular Crystals and Liquid Crystals, 1993, 237, 75-84.	0.3	21
110	Effect of 2-(4-fluorophenylamino)-5-(2,4-dihydroxyphenyl)-1,3,4-thiadiazole on the molecular organisation and structural properties of the DPPC lipid multibilayers. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2850-2859.	2.6	21
111	Switchable fluorescent liquid crystals. Applied Physics Letters, 2009, 95, .	3.3	20
112	Evidence for general tilt columnar liquid crystalline phase. Soft Matter, 2009, 5, 2281.	2.7	20
113	Polar and Apolar Columnar Phases Made of Bent-Core Mesogens. Topics in Current Chemistry, 2011, 318, 281-302.	4.0	20
114	Reentrant orthogonal smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>A</mml:mi></mml:mrow></mml:math>phase below a tilted smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>C</mml:mi></mml:mrow></mml:math>phase in a chiral compound. Physical Review E, 2011, 83, 020701.	2.1	20
115	Ordered structures of alkylated carbon dots and their applications in nonlinear optics. Journal of Materials Chemistry C, 2020, 8, 8980-8991.	5.5	20
116	Chiral liquid crystalline compounds with a re-entrant SmA* phase. Journal of Materials Chemistry, 2011, 21, 14807.	6.7	19
117	Enzymes and mediators hosted together in lipidic mesophases for the construction of biodevices. Journal of Colloid and Interface Science, 2012, 385, 130-136.	9.4	19
118	Stable electro-optic response in wide-temperature blue phases realized in chiral asymmetric bent dimers [Invited]. Optical Materials Express, 2014, 4, 662.	3.0	19
119	Direct Visualization of Optical Activity in Chiral Substances Using a Helical Nanofilament (B4) Liquid Crystal Phase. Advanced Optical Materials, 2019, 7, 1901399.	7.3	19
120	Organic nanotubes created from mesogenic derivatives. Nanoscale Advances, 2019, 1, 2835-2839.	4.6	19
121	Paramagnetic liquid-crystalline complexes based on novel enaminoketone ligands. Liquid Crystals, 1992, 11, 797-802.	2.2	18
122	Phenyl-cyclohexyl enaminoketone ligands and their Cu(II) complexes. Liquid Crystals, 1993, 14, 773-784.	2.2	18
123	Smectic polymorphism in a series of three-ring enaminoketone compounds. Liquid Crystals, 1993, 14, 1837-1846.	2.2	18
124	Behavior of frustrated phase in ferroelectric and antiferroelectric liquid crystalline mixtures. Physical Review E, 2000, 61, 6674-6677.	2.1	18
125	Synthesis, characterisation and functionalisation of ZnO and TiO₂nanostructures: used as dopants in liquid crystal polymers. Liquid Crystals, 2014, 41, 91-100.	2.2	18
126	Photonic Bandgap in Achiral Liquid Crystalsâ€"A Twist on a Twist. Advanced Materials, 2021, 33, e2103288.	21.0	18

#	Article	IF	Citations
127	Nanocomposite of superparamagnetic maghemite nanoparticles and ferroelectric liquid crystal. RSC Advances, 2013, 3, 10919.	3.6	17
128	From Sponges to Nanotubes: A Change of Nanocrystal Morphology for Acuteâ€Angle Bentâ€Core Molecules. Angewandte Chemie - International Edition, 2016, 55, 12238-12242.	13.8	17
129	Growth model and structure evolution of Ag layers deposited on Ge films. Beilstein Journal of Nanotechnology, 2018, 9, 66-76.	2.8	17
130	Controlling spontaneous chirality in achiral materials: liquid crystal oligomers and the heliconical twist-bend nematic phase. Chemical Communications, 2022, 58, 5285-5288.	4.1	17
131	New series of 4-(4â€²-octyloxybiphenyl-4-yloxymethyl)benzoic acid derivatives with mesogenic properties. Journal of Materials Chemistry, 1999, 9, 361-369.	6.7	16
132	Growth of a Plate-Shaped SrTiO₃â€“TiO₂ Eutectic. Crystal Growth and Design, 2011, 11, 3935-3940.	3.0	16
133	Synthesis and study of new rod-like mesogens containing 2-aminothiophene unit. Tetrahedron, 2012, 68, 8172-8180.	1.9	16
134	Eu(III)-coupled luminescent multi-walled carbon nanotubes in surfactant solutions. Carbon, 2012, 50, 436-443.	10.3	16
135	Charged additives modify drug release rates from lipidic cubic phase carriers by modulating electrostatic interactions. Journal of Electroanalytical Chemistry, 2018, 819, 269-274.	3.8	16
136	X-Ray Studies of Bond Orientational Order in Liquid-Crystalline Orthogonal Hexatic-B Phase. Europhysics Letters, 1994, 27, 507-512.	2.0	15
137	Multicritical point involving hexatic smectic phases. Physical Review E, 1995, 52, 1748-1752.	2.1	15
138	Evidence of the smectic antiphase CËœ in 4-decyloxybiphenyl ester imide derivatives. Journal of Materials Chemistry, 1999, 9, 371-374.	6.7	15
139	Synthesis and properties of a new series of mesogenic compounds with pyridine, oxidopyridinium, thienyl and furyl moieties. Journal of Materials Chemistry, 2001, 11, 741-748.	6.7	15
140	Synthesis, thermal stabilities, and anisotropic properties of some new isoflavoneâ€based esters 7â€decanoyloxyâ€3â€(4â€²â€substitutedphenyl)â€4Hâ€1â€benzopyranâ€4â€ones. Liquid Crystals, 2008, 35, 315-323.	2.2	15
141	Gold nanoparticles with flexible mesogenic grafting layers. Soft Matter, 2013, 9, 3005.	2.7	15
142	Optical properties of thiophene-containing liquid crystalline and hybrid liquid crystalline materials. New Journal of Chemistry, 2014, 38, 2927-2934.	2.8	15
143	Supramolecular organization of bi- and terthiophene disubstituted diketopyrrolopyrrole, donorâ€“acceptorâ€“donor semiconducting derivatives. Synthetic Metals, 2015, 204, 133-140.	3.9	15
144	All-organic liquid crystalline radicals with a spin unit in the outer position of a bent-core system. Journal of Materials Chemistry C, 2016, 4, 11540-11547.	5.5	15

#	Article	IF	Citations
145	Linkage-length dependent structuring behaviour of bent-core molecules in helical nanostructures. Soft Matter, 2016, 12, 3326-3330.	2.7	15
146	Azobenzene-based liquid crystal dimers and the twist-bend nematic phase. Liquid Crystals, 0, , 1-19.	2.2	15
147	Polarization Gratings Spontaneously Formed from a Helical Twistâ€Bend Nematic Phase. ChemPhysChem, 2018, 19, 2566-2571.	2.1	15
148	Orthogonal hexatic smectic phase-rare or common?. Liquid Crystals, 1995, 19, 85-91.	2.2	14
149	Novel Nonsymmetric Trimeric Liquid Crystals Exhibiting Glassy Nematic State at Low Temperatures. Molecular Crystals and Liquid Crystals, 2008, 487, 135-152.	0.9	14
150	Aggregation and Layering Transitions in Thin Films of Xâ€, Tâ€, and Anchorâ€Shaped Bolaamphiphiles at the Airâ€“Water Interface. Chemistry - A European Journal, 2011, 17, 5861-5873.	3.3	14
151	Morphological changes of gold nanoparticles due to adsorption onto silicon substrate and oxygen plasma treatment. RSC Advances, 2014, 4, 12729-12736.	3.6	14
152	Control of sample alignment mode for hybrid lamellar systems based on gold nanoparticles. Chemical Communications, 2014, 50, 7975.	4.1	14
153	Double gyroid structures made of asymmetric dimers. Liquid Crystals, 2016, 43, 235-240.	2.2	14
154	Liquidâ€Crystalline Elastomers with Gold Nanoparticle Crossâ€Linkers. Chemistry - A European Journal, 2017, 23, 8912-8920.	3.3	14
155	Security use of the chiral photonic film made of helical liquid crystal structures. Nanoscale, 2020, 12, 21629-21634.	5.6	14
156	New structural model of a chiral cubic liquid crystalline phase. Physical Chemistry Chemical Physics, 2020, 22, 12814-12820.	2.8	14
157	Reversible aggregation of X-Shaped bolaamphiphiles with partially fluorinated lateral chains at the air/water interface. Chemical Communications, 2010, 46, 1896-1898.	4.1	13
158	Effect of dimerization on the field-induced birefringence in ferrofluids. Physical Review E, 2013, 87, 062322.	2.1	13
159	Unusual polymorphism in new bent-shaped liquid crystals based on biphenyl as a central molecular core. Beilstein Journal of Organic Chemistry, 2014, 10, 794-807.	2.2	13
160	Design and investigation of de Vries liquid crystals based on 5-phenyl-pyrimidine and (R,R) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	13
161	Bi-continuous orthorhombic soft matter phase made of polycatenar molecules. Soft Matter, 2020, 16, 3882-3885.	2.7	13
162	Non-discoidal copper(II) and nickel(II) binuclear complexes forming columnar mesophases. Chemical Communications, 1996, , 2731-2732.	4.1	12

#	Article	IF	Citations
163	<title>New analogs of MHPOBC</title>. , 1998, 3319, 100.		12
164	A computer simulation study of the ordered phases of some mesogenic fullerene derivatives. Chemical Physics Letters, 2006, 430, 297-302.	2.6	12
165	New bentâ€shaped liquid crystalline derivatives of 2,7â€dihydroxynaphthalene containing lateral bromine atoms. Liquid Crystals, 2008, 35, 743-750.	2.2	12
166	[2]Benzothiophene bent-shaped liquid crystals. Liquid Crystals, 2010, 37, 1501-1513.	2.2	12
167	Self-Assembly of Gold Nanoparticles into 2D Arrays Induced by Bolaamphiphilic Ligands. Journal of Physical Chemistry C, 2013, 117, 24056-24062.	3.1	12
168	Optically Active Cubic Liquid Crystalline Phase Made of Achiral Polycatenar Stilbene Derivatives. Chemistry - A European Journal, 2017, 23, 6853-6857.	3.3	12
169	ac-calorimetry studies at the hexatic-Bâ€“smectic-Aand crystal-Bâ€“hexatic-Bphase transitions in two compounds with hydrogen bonding. Physical Review E, 1995, 51, 3346-3349.	2.1	11
170	Binuclear liquid crystals incorporating dia- or para-magnetic transition metals. Liquid Crystals, 1995, 19, 675-677.	2.2	11
171	The new SmC* phase with periodic in-layer director modulation. Ferroelectrics, 1996, 178, 101-110.	0.6	11
172	Dielectric spectroscopy study of the transition into the hexatic phase in chiral smectics. Ferroelectrics, 2000, 245, 43-50.	0.6	11
173	Spontaneous Breaking of Minimal Surface Condition: Labyrinths in Free Standing Smectic Films. Physical Review Letters, 2005, 95, 207801.	7.8	11
174	Synthesis, 2D NMR and X-ray diffraction studies on Cu(II) and Ni(II) complexes with ligands derived from azobenzene-cored Schiff base: Mesomorphic behaviors of Cu(II)â€“phenolates and crystal structure of bis[4-(4-alkoxy-2-hydroxybenzylideneamino)azobenzene]copper(II). Journal of Molecular Structure, 2011, 999, 68-82.	3.6	11
175	Gelling and fluorescent mesogens of quinoxaline analogs. Journal of Materials Chemistry C, 2013, 1, 6883.	5.5	11
176	The effect of chiral doping in achiral smectic liquid crystals on the de Vries characteristics: smectic layer thickness, electro-optics and birefringence. Liquid Crystals, 2018, 45, 513-521.	2.2	11
177	Helical phases assembled from achiral molecules: Twist-bend nematic and helical filamentary B4 phases formed by mesogenic dimers. Journal of Molecular Liquids, 2022, 346, 118180.	4.9	11
178	New ferroelectric liquid crystals with cyclic and non-cyclic chiral groups. Ferroelectrics, 1998, 212, 357-364.	0.6	10
179	Studies on the liquid crystalline behaviour of novel N-alkyl-substituted ester imides. Liquid Crystals, 2004, 31, 1227-1234.	2.2	10
180	Autonomous Selfâ€Assembly of Ionic Nanoparticles into Hexagonally Closeâ€Packed Lattices at a Planar Oilâ€“Water Interface. Chemistry - A European Journal, 2012, 18, 2235-2238.	3.3	10

#	Article	IF	Citations
181	Stepwise heat-capacity change at an orientation transition in liquid crystals. Physical Review E, 2014, 89, 022512.	2.1	10
182	Highly Elastic Liquid Crystals with a Subâ€nanonewton Bending Elastic Constant Mediated by the Resident Molecular Assemblies. Advanced Materials, 2014, 26, 1918-1922.	21.0	10
183	Thermal diffusivity anisotropy measured by a temperature wave method in the homologous series of (p-alkoxybenzylidene)-pâ€²-octylaniline (nO.8). Journal of Chemical Physics, 2015, 143, 074903.	3.0	10
184	Controlling the Spatial Organization of Liquid Crystalline Nanoparticles by Composition of the Organic Grafting Layer. Chemistry - A European Journal, 2015, 21, 10082-10088.	3.3	10
185	Effect of the applied electric field on new cholesterics with extremely short pitch. Liquid Crystals, 2018, 45, 634-640.	2.2	10
186	Supramolecular organization of liquid-crystal dimers â€“ bis-cyanobiphenyl alkanes on HOPG by scanning tunneling microscopy. Nanoscale, 2018, 10, 16201-16210.	5.6	10
187	Understanding and Controlling the Crystallization Process in Reconfigurable Plasmonic Superlattices. ACS Nano, 2021, 15, 4916-4926.	14.6	10
188	New patterns of twist-bend liquid crystal phase behaviour: the synthesis and characterisation of the 1-(4-cyanobiphenyl-4â€²-yl)-10-(4-alkylaniline-benzylidene-4â€²-oxy)decanes (CB10OÂ·m). Soft Matter, 2022, 18, 4679-4688.	2.7	10
189	Enaminoketones as new hydrogen bonded liquid crystals. Liquid Crystals, 1996, 21, 885-891.	2.2	9
190	Synthesis, mesomorphic properties and X-ray diffraction studies on		

#	Article	IF	Citations
199	Electron-Donorâ^'Acceptor Fullerene Derivative Retained on Electrodes Using SC3 Hydrophobin. Journal of Physical Chemistry C, 2007, 111, 1176-1179.	3.1	8
200	Mesogenic Ni(ii) and Cu(ii) complexes of barbituric acid derivativesâ€"toward one-dimensional magnets. Journal of Materials Chemistry, 2008, 18, 3419.	6.7	8
201	Liquid crystalline benzothiophenes. Part 3: 2,4- and 2,7-disubstituted benzothiophenes. Liquid Crystals, 2016, 43, 839-852.	2.2	8
202	Tuneable helices of plasmonic nanoparticles using liquid crystal templates: molecular dynamics investigation of an unusual oddâ€"even effect in liquid crystalline dimers. Chemical Communications, 2022, 58, 7364-7367.	4.1	8
203	Rod-like phases formed by Ni(II) and VO(II) complexes of tetradentate enaminoketone ligands. Liquid Crystals, 1999, 26, 685-689.	2.2	7
204	Ferroelectric and antiferroelectric phases formed by mesogens with polyether terminal group. Journal of Materials Chemistry, 2003, 13, 475-478.	6.7	7
205	Binary mixtures of liquid crystalline compounds with a reentrant smectic-A*phase. Physical Review E, 2011, 84, 061704.	2.1	7
206	Stable, ordered multilayers of partially fluorinated bolaamphiphiles at the airâ€"water interface. Soft Matter, 2012, 8, 5262.	2.7	7
207	The influence of structural changes of symmetrical dimers containing two phenyl groups on liquid crystalline behaviour. Liquid Crystals, 2012, 39, 1216-1221.	2.2	7
208	3-Hydroxycinnamic acid â€" a new central core for the design of bent-shaped liquid crystals. Journal of Materials Chemistry C, 2013, 1, 4962.	5.5	7
209	Chiral Discrimination Effect in Re-entrant Liquid Crystals. Europhysics Letters, 1993, 22, 371-375.	2.0	6
210	Helix twist inversion in the SmC* phase of lactic acid derivatives. Ferroelectrics, 1996, 179, 81-92.	0.6	6
211	Properties of chiral liquid crystals with inner hydrogen bonds. Journal of Materials Chemistry, 1997, 7, 1709-1012.	6.7	6
212	Restricted molecular rotation in hexatic B and crystalline B mesophases as studied by the electron paramagnetic resonance method. Journal of Chemical Physics, 1997, 107, 9208-9213.	3.0	6
213	Effect of chirality on phase transitions in re-entrant liquid crystals. Liquid Crystals, 1997, 23, 185-191.	2.2	6
214	How simple can a thermotropic mesogenic molecule be? Supramolecular layers through a network of hydrogen bonds. Liquid Crystals, 2008, 35, 143-147.	2.2	6
215	Antibiotic amphotericin Bâ€"DPPC lipid complex: X-ray diffraction and FTIR studies. Journal of Molecular Structure, 2015, 1080, 57-62.	3.6	6
216	W-shaped liquid crystalline dimers. RSC Advances, 2016, 6, 41972-41981.	3.6	6

#	Article	IF	Citations
217	Polycatenar Mesogens with Various Degree of Flexibility of Molecular Structure. ChemPhysChem, 2016, 17, 2686-2690.	2.1	6
218	Fluorescent and charge transport properties of columnar phases made of mono and bi-phenazine derivatives. Soft Matter, 2018, 14, 2104-2111.	2.7	6
219	Mesogens with central naphthalene core substituted at various positions. Liquid Crystals, 2018, 45, 746-756.	2.2	6
220	Mesomorphic properties of lactic acid derivatives and their racemic mixtures in comparison with analogous non-chiral compounds. Liquid Crystals, 2020, 47, 1516-1527.	2.2	6
221	Liquid-crystalline paramagnetic Cu(II) complexes of enaminoketone ligands. Molecular Crystals and Liquid Crystals, 1994, 249, 17-25.	0.3	5
222	Spontaneous Periodic In-Layer Director Modulation in Tilted Chiral Smectics. Molecular Crystals and Liquid Crystals, 1997, 301, 325-336.	0.3	5
223	Phase transitions between orthogonal and tilted hexatic phases. European Physical Journal E, 2000, 1, 137-140.	1.6	5
224	Nematic Phase Formed by V-Shaped Molecules. Molecular Crystals and Liquid Crystals, 2001, 365, 107-115.	0.3	5
225	Synthesis and study of new liquid crystalline compounds with an epoxy group. Liquid Crystals, 2009, 36, 67-73.	2.2	5
226	Mesogenic Ni(II) complexes of Cssymmetry forming Colhphase by dipole-dipole interaction. Liquid Crystals, 2012, 39, 729-737.	2.2	5
227	Core-to-core dimers forming switchable mesophase. Chemical Communications, 2017, 53, 2721-2724.	4.1	5
228	Addendum: Heliconical smectic phases formed by achiral molecules. Nature Communications, 2018, 9, 2856.	12.8	5
229	Study of Liquid Crystals Showing Two Isotropic Phases by 1H NMR Diffusometry and 1H NMR Relaxometry. Crystals, 2019, 9, 178.	2.2	5
230	Design and electro-optic investigations of de Vries chiral smectic liquid crystals for exhibiting broad temperature ranges of SmA* and SmC* phases and fast electro-optic switching. Journal of Materials Chemistry C, 2020, 8, 4859-4868.	5.5	5
231	Light-Driven Fabrication of a Chiral Photonic Lattice of the Helical Nanofilament Liquid Crystal Phase. ACS Applied Materials & Interfaces, 2022, 14, 4409-4416.	8.0	5
232	Phase Diagrams and Phase Transition Studies of a Homologous Series with Both Tilted and Orthogonal Hexatic Phases. Molecular Crystals and Liquid Crystals, 1995, 260, 449-459.	0.3	4
233	Tilted and Orthogonal Smectics in Thienyl and Furyl Substituted Enaminoketones. Molecular Crystals and Liquid Crystals, 1997, 301, 19-24.	0.3	4
234	High-resolution heat-capacity studies of the hexatic-Bâ€“smectic-Fphase transition in liquid-crystal compounds. Physical Review E, 1998, 58, R1207-R1210.	2.1	4

#	Article	IF	Citations
235	Phase behavior in the reentrant-nematic region of chiral frustrated smectic liquid crystals. Physical Review E, 1998, 58, 595-601.	2.1	4
236	Approximate elastic model of the stripe texture in free-standing cheral smectic C films. Ferroelectrics, 1998, 212, 115-122.	0.6	4
237	Molecular Dynamics in the Vicinity of the Transition into the Hexatic Phase in Chiral Smectics. Molecular Crystals and Liquid Crystals, 1999, 328, 275-282.	0.3	4
238	X-Ray magnetic circular dichroism on vanadium molecular derivatives. European Physical Journal B, 2004, 38, 43-48.	1.5	4
239	Photocurrent increase by doping a liquid crystal host with a functionalized fullerene. Liquid Crystals, 2006, 33, 335-339.	2.2	4
240	Synthesis, anisotropic behaviour and structural changes in somepara-substituted isoflavones: 4â€²-substituted-7-(4â€³-decyloxybenzoyloxy)-4H-1-benzopyran-4-ones. Phase Transitions, 2011, 84, 256-268.	1.3	4
241	Spontaneous self-assembly of partially fluorinated bolaamphiphiles into ordered layered structures. Physical Chemistry Chemical Physics, 2012, 14, 14365.	2.8	4
242	New photoswitchable mesogenic polyurethanes with gelation ability. Journal of Materials Chemistry C, 2014, 2, 10357-10361.	5.5	4
243	Structure-sensitive bend elastic constants between piconewton and subnanonewton in diphenylacetylene-core-based liquid crystals. Physical Review E, 2014, 90, 042506.	2.1	4
244	Banana-shaped liquid crystals based on 2,7-dihydroxynaphthalene derivatives. Russian Journal of General Chemistry, 2015, 85, 577-583.	0.8	4
245	Monolayer Filaments versus Multilayer Stacking of Bentâ€Core Molecules. Angewandte Chemie, 2016, 128, 3529-3533.	2.0	4
246	Bent-core dimers with top-to-bottom linkage between central units. RSC Advances, 2018, 8, 22974-22985.	3.6	4
247	Calamitic and discotic liquid crystalline phases for mesogens with triangular cores. Soft Matter, 2019, 15, 7195-7202.	2.7	4
248	Interaction of Te and Se interlayers with Ag or Au nanofilms in sandwich structures. Beilstein Journal of Nanotechnology, 2019, 10, 238-246.	2.8	4
249	Fluorescent bent-core mesogens with thiophene-based central unit. Liquid Crystals, 2020, 47, 1803-1810.	2.2	4
250	Directing Polymorphism in the Helical Nanofilament Phase. Chemistry - A European Journal, 2021, 27, 7108-7113.	3.3	4
251	Ferro- and Antiferroelectric Liquid Crystals. , 2003, , 257-510.		4
252	Phase transitions and reentrant phenomena in liquid crystals having both rigid and flexible intramolecular joints. Journal De Physique II, 1992, 2, 1465-1477.	0.9	4

#	Article	IF	Citations
253	Structure and grating efficiency of thin cells filled by a twist-bend nematic liquid crystal. Physical Review E, 2020, 102, 032704.	2.1	4
254	Chiral columns forming a lattice with a giant unit cell. Soft Matter, 2022, 18, 2006-2011.	2.7	4
255	Mesogenic properties of 1,2,3-tri-[3â€²-(4â€³-alkoxyphenyl)-3â€²-oxo-1â€²-propenylamino]propane. Liquid Crystals, 1996, 20, 607-610.	2.2	3
256	Continuous Evolution from Ferroelectric to Antiferroelectric State in Chiral Smectics. Molecular Crystals and Liquid Crystals, 1999, 328, 75-82.	0.3	3
257	Synthesis and Phase Behaviour of Some New Isoflavone Derivatives. Ferroelectrics, 2008, 365, 65-77.	0.6	3
258	Synthesis and mesomorphic properties of unsymmetrical banana-shaped 1,3-dihydroxybenzene esters. Liquid Crystals, 2009, 37, 93-99.	2.2	3
259	New One-Pot Technique to Introduce Charged Nanoparticles into a Lyotropic Liquid Crystal Matrix. Langmuir, 2011, 27, 3937-3944.	3.5	3
260	Liquid crystalline analogues of curcumin. Liquid Crystals, 2014, 41, 685-693.	2.2	3
261	The influence of amphotericin B on the molecular organization and structural properties of DPPC lipid membranes modified by sterols. Journal of Molecular Structure, 2015, 1082, 7-11.	3.6	3
262	From Sponges to Nanotubes: A Change of Nanocrystal Morphology for Acuteâ€Angle Bentâ€Core Molecules. Angewandte Chemie, 2016, 128, 12426-12430.	2.0	3
263	Mesogenic properties of liquid crystals having a chiral semiflexible joint. Molecular Crystals and Liquid Crystals, 1994, 249, 33-42.	0.3	2
264	Enaminoketone mesogens having polar terminal groups. Molecular Crystals and Liquid Crystals, 1994, 249, 27-32.	0.3	2
265	Molecular Rotation in Hexatic B Mesophase Studied by the EPR Method. Molecular Crystals and Liquid Crystals, 1997, 303, 121-126.	0.3	2
266	The influence of structural changes of theNâ€substituent on liquid crystalline behaviour of ester imides. Liquid Crystals, 2006, 33, 1143-1151.	2.2	2
267	Dinuclear Mesogens with Antiferromagnetic Properties. ChemPhysChem, 2010, 11, 1735-1741.	2.1	2
268	Magnetic moment of a single metal nanoparticle determined from the Faraday effect. Physical Review E, 2013, 87, .	2.1	2
269	Bent-core mesogens with an aromatic unit at the terminal position. New Journal of Chemistry, 2017, 41, 4672-4679.	2.8	2
270	Hierarchical Structures Formed by Flexible Dendrimeric Molecules Based on Gallic Acid. Macromolecular Chemistry and Physics, 2017, 218, 1700316.	2.2	2

#	Article	IF	Citations
271	A Seedless Method for Gold Nanoparticle Growth inside a Silica Matrix: Fabrication of Materials Capable of Thirdâ€Harmonic Generation in the Nearâ€Infrared. ChemPlusChem, 2019, 84, 525-533.	2.8	2
272	Modeling of the Resonant X-ray Response of a Chiral Cubic Phase. Crystals, 2021, 11, 214.	2.2	2
273	<title>Liquid-crystalline paramagnetic Cu(II) complexes of enaminoketone ligands</title>. , 1993, , .		1
274	<title>Enaminoketone mesogens having polar terminal groups</title>. , 1993, , .		1
275	<title>Enaminoketone liquid crystals having trifluoromethyl terminal substituents</title>. , 1995, , .		1
276	<title>New series of ferroelectric substances with double bond in core exhibiting helix twist inversion</title>. , 1998, , .		1
277	Ferroelectric, ferrielectric and antiferroelectric mesophases in compounds with a polybenzyloxycarbonyl mesogenic core. Journal of Materials Chemistry, 2005, , .	6.7	1
278	Liquid Crystal Nanoparticles- LCNANOP: A SONSII Collaborative Research Project. Materials Research Society Symposia Proceedings, 2008, 1134, 1.	0.1	1
279	Synthesis of V-Shaped liquid crystal benzoates. Russian Journal of General Chemistry, 2015, 85, 1606-1610.	0.8	1
280	Liquid crystals from mesogens containing gold nanoparticles. Series in Sof Condensed Matter, 2016, , 571-602.	0.1	1
281	H-Shape mesogenic dimers â€“ the spacer parity effect. RSC Advances, 2017, 7, 20354-20359.	3.6	1
282	NMR investigation of a thermotropic liquid crystal showing isotropic-isotropic'-(columnar)-cubic phase transitions. Molecular Crystals and Liquid Crystals, 2017, 649, 20-30.	0.9	1
283	Gold nanoparticles grafted with chemically incompatible ligands. RSC Advances, 2021, 11, 9568-9571.	3.6	1
284	Spontaneous formation of polarization diffraction gratings in surface-stabilized cells filled with liquid crystal in the modulated nematic phase. , 2019, , .		1
285	<title>Mesogenic properties of liquid crystals having a chiral semiflexible joint</title>. , 1993, 1845, 485.		0
286	<title>X-ray investigation of liquid crystals under high pressure</title>. , 1998, 3319, 133.		0
287	Important anniversary of Milada GlogarovÃ¡. Phase Transitions, 2012, 85, 847-848.	1.3	0
288	Localized plasmon resonances on grains in smooth Ag films. , 2015, , .		0

#	Article	IF	Citations
289	Magnetic Liquid Crystals for Molecular Spintronics. Acta Physica Polonica A, 2008, 114, 1383-1386.	0.5	0