

# Damian Pocięcha

## List of Publications by Year in descending order

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292  
papers

6,650  
citations

81900

39  
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138484

58  
g-index

299  
all docs

299  
docs citations

299  
times ranked

2948  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heliconical smectic phases formed by achiral molecules. Nature Communications, 2018, 9, 228.	12.8	167
2	Bent-core liquid crystals forming two- and three-dimensional modulated structures. Physical Review E, 2003, 67, 031702.	2.1	130
3	Axially Polar Columnar Phase Made of Polycatenar Bent-Shaped Molecules. Journal of the American Chemical Society, 2004, 126, 15946-15947.	13.7	115
4	Multi-level chirality in liquid crystals formed by achiral molecules. Nature Communications, 2019, 10, 1922.	12.8	103
5	A Twist-Bend Nematic ( $N_{TB}$ ) Phase of Chiral Materials. Angewandte Chemie - International Edition, 2015, 54, 10155-10159.	13.8	97
6	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
7	Liquid-Crystalline Phases Made of Gold Nanoparticles. Angewandte Chemie - International Edition, 2009, 48, 5167-5169.	13.8	96
8	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
9	Sulfur-linked cyanobiphenyl-based liquid crystal dimers and the twist-bend nematic phase. Liquid Crystals, 2019, 46, 1595-1609.	2.2	85
10	Structure studies of the nematic phase formed by bent-core molecules. Physical Review E, 2009, 80, 030701.	2.1	84
11	The role of a terminal chain in promoting the twist-bend nematic phase: the synthesis and characterisation of the 1-(4-cyanobiphenyl-4-yl)-6-(4-alkyloxylanilinebenzylidene-4-oxy)hexanes. Liquid Crystals, 2018, 45, 2341-2351.	2.2	83
12	Do the short helices exist in the nematic TB phase?. Liquid Crystals, 2015, 42, 1-7.	2.2	82
13	Ferroelectric Mesophase with Randomized Interlayer Structure. Physical Review Letters, 2003, 91, 185501.	7.8	79
14	Molecular curvature, specific intermolecular interactions and the twist-bend nematic phase: the synthesis and characterisation of the 1-(4-cyanobiphenyl-4-yl)-6-(4-alkylanilinebenzylidene-4-oxy)hexanes (CB6O). Soft Matter, 2019, 15, 3188-3197.	2.7	78
15	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
16	Enantiomeric excess dependence of the phase diagram of antiferroelectric liquid crystals. Physical Review E, 2002, 65, 061703.	2.1	73
17	New series of ferroelectric liquid crystals with two or three chiral centres exhibiting antiferroelectric and hexatic phases. Liquid Crystals, 2001, 28, 1203-1209.	2.2	70
18	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

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19	Ideal Liquid Crystal Display Mode Using Achiral Banana-Shaped Liquid Crystals. Japanese Journal of Applied Physics, 2006, 45, L282-L284.	1.5	67
20	Theoretical and experimental study of the intermediate Sm CFI $\hat{e}$ 2* and the Sm CFI $\hat{e}$ 1* phases in antiferroelectric liquid crystals. Journal of Chemical Physics, 2002, 117, 1817-1826.	3.0	66
21	Switching Mechanism in Polar Columnar Mesophases Made of Bent-Core Molecules. ChemPhysChem, 2005, 6, 1087-1093.	2.1	62
22	Multiple Polar and Non $\hat{e}$ polar Nematic Phases. ChemPhysChem, 2021, 22, 2506-2510.	2.1	62
23	Substituent-Dependent Magnetic Behavior of Discotic Benzo[ <i>e</i> ][1,2,4]triazinyls. Journal of the American Chemical Society, 2016, 138, 9421-9424.	13.7	58
24	Multidimensional structures made by gold nanoparticles with shape-adaptive grafting layers. Soft Matter, 2010, 6, 5397.	2.7	55
25	The Chiral Twist $\hat{e}$ Bend Nematic Phase (N* <sub>TB</sub> ). Chemistry - A European Journal, 2019, 25, 13329-13335.	3.3	55
26	Physical gels made of liquid crystalline B4 phase. Chemical Communications, 2013, 49, 3119.	4.1	54
27	New ferroelectric and antiferroelectric liquid crystalline materials containing differing numbers of lactate units. Liquid Crystals, 2003, 30, 627-631.	2.2	53
28	End functionalised liquid crystalline bent-core molecules and first DAB derived dendrimers with banana shaped mesogenic units. Journal of Materials Chemistry, 2005, 15, 1722.	6.7	53
29	An optically uniaxial antiferroelectric smectic phase in asymmetrical bent-core compounds containing a 3-aminophenol central unit. Journal of Materials Chemistry, 2010, 20, 7944.	6.7	52
30	Liquid crystal phases formed by asymmetric bent-shaped molecules. Journal of Materials Chemistry, 2003, 13, 2132.	6.7	50
31	Multiple nematic phases observed in chiral mesogenic dimers. Journal of Materials Chemistry C, 2013, 1, 46-49.	5.5	49
32	Photoresponsive helical nanofilaments of B <sub>4</sub> phase. Journal of Materials Chemistry C, 2014, 2, 2323-2327.	5.5	49
33	Reentrant Ferroelectricity in Liquid Crystals. Physical Review Letters, 2001, 86, 3048-3051.	7.8	47
34	Photoconductive Liquid-Crystalline Derivatives of 6-Oxoverdazyl. Journal of the American Chemical Society, 2012, 134, 2465-2468.	13.7	46
35	Anion-driven mesogenicity: a comparative study of ionic liquid crystals based on the [closo-1-CB9H10] $\hat{a}$ <sup>-</sup> and [closo-1-CB11H12] $\hat{a}$ <sup>-</sup> clusters. Journal of Materials Chemistry, 2012, 22, 4874.	6.7	45
36	Re-entrant Isotropic Phase between Lamellar and Columnar Mesophases. Journal of the American Chemical Society, 2002, 124, 8884-8890.	13.7	44

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37	Bent-core molecules with lateral halogen atoms forming tilted, synclinic and anticlinic, lamellar phases. <i>Journal of Materials Chemistry</i> , 2004, 14, 2374.	6.7	44
38	A nematic-polar columnar phase sequence in new bent-shaped liquid crystals based on a 7-hydroxynaphthalene-2-carboxylic acid core. <i>Journal of Materials Chemistry</i> , 2009, 19, 3153.	6.7	43
39	Supramolecular Chirality Synchronization in Thin Films of Plasmonic Nanocomposites. <i>ACS Nano</i> , 2020, 14, 12918-12928.	14.6	43
40	Modulated Structures in Bent-Core Liquid Crystals: Two Faces of One Phase. <i>Physical Review Letters</i> , 2007, 98, 247802.	7.8	41
41	New chlorine-substituted liquid crystals possessing frustrated TGB <sub>A</sub> and SmQ phases. <i>Liquid Crystals</i> , 2008, 35, 641-651.	2.2	41
42	The kinetics of the E-Z-E isomerisation and liquid-crystalline properties of selected azobenzene derivatives investigated by the prism of the ester group inversion. <i>Liquid Crystals</i> , 2015, 42, 1148-1158.	2.2	41
43	Temperature-controlled liquid crystalline polymorphism of gold nanoparticles. <i>Soft Matter</i> , 2011, 7, 10561.	2.7	40
44	Ionic Strength-Controlled Deposition of Charged Nanoparticles on a Solid Substrate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19096-19103.	3.1	40
45	Fluorinated metallomesogens - lamellar versus columnar phase formation. <i>Journal of Materials Chemistry</i> , 2009, 19, 1395.	6.7	38
46	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
47	Observation of a Frustrated Phase in Mixtures of Ferroelectric and Antiferroelectric Liquid Crystals. <i>Physical Review Letters</i> , 1998, 81, 2946-2949.	7.8	36
48	Paraelectric-antiferroelectric phase transition in achiral liquid crystals. <i>Physical Review E</i> , 2005, 72, 060701.	2.1	36
49	Polar order and tilt in achiral smectic phases. <i>Physical Review E</i> , 2006, 74, 021702.	2.1	36
50	Polar order in columnar phase made of polycatenar bent-core molecules. <i>Physical Review E</i> , 2006, 73, 031704.	2.1	36
51	Phase Transition in Salt-Free Catanionic Surfactant Mixtures Induced by Temperature. <i>Langmuir</i> , 2010, 26, 34-40.	3.5	36
52	Tetragonal Phase of 6-Oxoverdazyl Bent-Core Derivatives with Photoinduced Ambipolar Charge Transport and Electrooptical Effects. <i>Journal of the American Chemical Society</i> , 2014, 136, 14658-14661.	18.7	36
53	Bent-shaped mesogens without an azomethine joint. <i>Journal of Materials Chemistry</i> , 2002, 12, 3392-3399.	6.7	35
54	Novel hockey-stick mesogens with the nematic, synclinic and anticlinic smectic C phase sequence. <i>Liquid Crystals</i> , 2008, 35, 1023-1036.	2.2	35

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55	Effect of Molecular Structure and Thermal Treatment on Photooptical Properties of Photochromic Azobenzene-containing Polymer Films. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 342-352.	2.2	35
56	Modulated general tilt structures in bent-core liquid crystals. <i>Journal of Materials Chemistry</i> , 2008, 18, 3044.	6.7	34
57	Ferroelectric behavior of orthogonal smectic phase made of bent-core molecules. <i>Physical Review E</i> , 2011, 84, 031706.	2.1	34
58	Transition between two orthogonal polar phases in symmetric bent-core liquid crystals. <i>Soft Matter</i> , 2011, 7, 2895.	2.7	32
59	Control of Gold Nanoparticle Superlattice Properties via Mesogenic Ligand Architecture. <i>Langmuir</i> , 2013, 29, 3404-3410.	3.5	32
60	The molecular organization of prenylated flavonoid xanthohumol in DPPC multibilayers: X-ray diffraction and FTIR spectroscopic studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 213-222.	2.6	32
61	Zwitterionic pyridinium derivatives of [1-CB <sub>9</sub> H <sub>10</sub> ] <sup>+</sup> and [1-CB <sub>11</sub> H <sub>12</sub> ] <sup>+</sup> as high $\hat{\mu}$ additives to a nematic host. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1585-1591.	5.5	31
62	Chirality of Liquid Crystals Formed from Achiral Molecules Revealed by Resonant X-Ray Scattering. <i>Advanced Materials</i> , 2020, 32, e1905591.	21.0	31
63	Twist-Bend Nematogenic Supramolecular Dimers and Trimers Formed by Hydrogen Bonding. <i>Crystals</i> , 2020, 10, 175.	2.2	31
64	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
65	Syntheses and characterization of novel asymmetric bent-core mesogens exhibiting polar smectic phases. <i>Journal of Materials Chemistry</i> , 2009, 19, 4240.	6.7	30
66	Incorporation of Carbon Nanotubes into a Lyotropic Liquid Crystal by Phase Separation in the Presence of a Hydrophilic Polymer. <i>Langmuir</i> , 2010, 26, 3562-3568.	3.5	30
67	Effect of co-monomers' relative concentration on self-assembling behaviour of side-chain liquid crystalline elastomers. <i>RSC Advances</i> , 2014, 4, 44056-44064.	3.6	30
68	Magnetic behaviour of bent-core mesogens derived from the 1,4-dihydrobenzo[1,2,4]triazin-4-yl. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3079-3088.	5.5	30
69	Directed self-assembly of a helical nanofilament liquid crystal phase for use as structural color reflectors. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	30
70	Remarkable smectic phase behaviour in odd-membered liquid crystal dimers: the CT6O.m series. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5167-5173.	5.5	30
71	Intrinsically chiral ferronematic liquid crystals: An inversion of the helical twist sense at the chiral nematic $\rightarrow$ Chiral ferronematic phase transition. <i>Journal of Molecular Liquids</i> , 2022, 361, 119532.	4.9	30
72	Thermal, optical, electrical and structural study of new symmetrical azomethine based on poly(1,4-butanediol)bis(4-aminobenzoate). <i>Journal of Molecular Structure</i> , 2010, 963, 175-182.	3.6	29

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73	Smectic mesophases of functionalized silver and gold nanoparticles with anisotropic plasmonic properties. <i>Chemical Communications</i> , 2013, 49, 7845.	4.1	29
74	Thermotropic cubic and tetragonal phases made of rod-like molecules. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16067-16074.	2.8	29
75	Twist-Bend Nematic Glasses: The Synthesis and Characterisation of Pyrene-based Nonsymmetric Dimers. <i>ChemPhysChem</i> , 2021, 22, 461-470.	2.1	29
76	Modulated and intercalated smectic phases formed by dimeric molecules. <i>Journal of Materials Chemistry</i> , 2003, 13, 34-37.	6.7	28
77	Electron Density Modulations in Columnar Banana Phases. <i>Chemistry of Materials</i> , 2007, 19, 3027-3031.	6.7	28
78	Molecular Factors Responsible for the Formation of the Axially Polar Columnar Mesophase ColhPA. <i>Chemistry - A European Journal</i> , 2007, 13, 3377-3385.	3.3	28
79	Synthesis and mesomorphic properties of new compounds exhibiting TGBA and TGBC liquid crystalline phases. <i>Liquid Crystals</i> , 2008, 35, 287-298.	2.2	28
80	A liquid-crystalline fullerene-oligophenylenevinylene dyad which displays columnar mesomorphism. <i>Soft Matter</i> , 2011, 7, 4948.	2.7	28
81	Non-symmetric chiral isoflavone dimers: synthesis, characterisation and mesomorphic behaviour. <i>Liquid Crystals</i> , 2012, 39, 1041-1047.	2.2	28
82	Monolayer Filaments versus Multilayer Stacking of Bent-Core Molecules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3468-3472.	13.8	28
83	Critical behavior of the optical birefringence at the nematic to twist-bend nematic phase transition. <i>Physical Review E</i> , 2018, 98, .	2.1	28
84	Room temperature magnetocaloric and magneto-transport properties of monovalent doped Pr <sub>0.6</sub> Sr <sub>0.35</sub> Na <sub>0.05</sub> MnO <sub>3</sub> manganite. <i>Journal of Alloys and Compounds</i> , 2012, 530, 138-143.	5.5	27
85	Phototunable Liquid-Crystalline Phases Made of Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13725-13728.	13.8	27
86	Hydrogen bonding and the design of twist-bend nematogens. <i>Journal of Molecular Liquids</i> , 2020, 303, 112630.	4.9	27
87	Columnar Mesomorphism of Bi- and Trinuclear Ni(II), Cu(II), and VO(II)cis-Enamoneketone Complexes with Low Symmetry. <i>Inorganic Chemistry</i> , 2000, 39, 4879-4885.	4.0	26
88	Characterization, liquid crystalline behavior, electrochemical and optoelectrical properties of new poly(azomethine)s and a poly(imide) with siloxane linkages. <i>Optical Materials</i> , 2011, 34, 61-74.	3.6	26
89	Reversible switching of structural and plasmonic properties of liquid-crystalline gold nanoparticle assemblies. <i>Nanoscale</i> , 2016, 8, 2656-2663.	5.6	26
90	First symmetrical banana compounds exhibiting SmAPR mesophase and unique transition between two orthogonal polar phases. <i>Chemical Communications</i> , 2009, , 6592.	4.1	25

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91	H-shaped liquid crystalline dimers. <i>Liquid Crystals</i> , 2011, 38, 149-154.	2.2	25
92	Thermochromic discotic 6-oxoverdazyls. <i>Chemical Communications</i> , 2012, 48, 7064.	4.1	25
93	Influence of terminal groups on liquid-crystalline polymorphism of selected azobenzene derivatives. <i>Liquid Crystals</i> , 2014, 41, 113-125.	2.2	25
94	The effect of the length of terminal n-alkyl carboxylate chain on self-assembling and photosensitive properties of chiral lactic acid derivatives. <i>Journal of Molecular Liquids</i> , 2019, 275, 829-838.	4.9	25
95	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
96	Single-Walled Carbon Nanotube/Lyotropic Liquid Crystal Hybrid Materials Fabricated by a Phase Separation Method in the Presence of Polyelectrolyte. <i>Langmuir</i> , 2010, 26, 8821-8828.	3.5	24
97	Non-symmetrical bent-shaped liquid crystals based on a laterally substituted naphthalene central core with four ester groups. <i>Liquid Crystals</i> , 2011, 38, 1099-1110.	2.2	24
98	Synthesis and Characterization of Quinuclidinium Derivatives of the [ <i>closo</i> -1-CB <sub>11</sub> H <sub>12</sub> ] <sup>+</sup> Anion as Potential Polar Components of Liquid Crystal Materials. <i>Inorganic Chemistry</i> , 2016, 55, 4016-4025.	4.0	24
99	Tuning the Magnetic Properties of Columnar Benzo[ <i>e</i> ][1,2,4]triazin-4-yls with the Molecular Shape. <i>ChemPhysChem</i> , 2019, 20, 636-644.	2.1	24
100	Systematic study of the chiral smectic phases of a fluorinated compound. <i>Liquid Crystals</i> , 2019, 46, 2256-2268.	2.2	24
101	Photoconductive bent-core liquid crystalline radicals with a paramagnetic polar switchable phase. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1083-1088.	5.5	24
102	Supramolecular liquid crystals exhibiting a chiral twist-bend nematic phase. <i>Materials Advances</i> , 2020, 1, 1622-1630.	5.4	24
103	Dielectric behavior of ferroelectric liquid crystals in the vicinity of the transition into the hexatic phase. <i>Journal of Chemical Physics</i> , 1999, 111, 1541-1550.	3.0	23
104	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.	2.2	23
105	2-D Density-modulated structures in asymmetric bent-core liquid crystals. <i>Journal of Materials Chemistry</i> , 2008, 18, 881.	6.7	23
106	Transformation from a rod-like to a hockey-stick-like and bent-shaped molecule in 3,4-disubstituted azobenzene-based mesogens. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7560.	5.5	23
107	Unusual temperature dependence of smectic layer structure associated with the nematic–smectic C phase transition in a hockey-stick-shaped four-ring compound. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1562.	5.5	23
108	Smectic behaviour of methyl 4-alkoxybenzoates with a partially fluorinated alkyl chain. <i>Liquid Crystals</i> , 2018, 45, 11-21.	2.2	23

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109	Calamitic or columnar mesomorphism determined by number and position of substituents in enamino-ketone Cu(II), Ni(II) and Co(II) complexes. <i>Liquid Crystals</i> , 1998, 25, 117-121.	2.2	22
110	Non-symmetrical bent-shaped liquid crystals with five ester groups. <i>Liquid Crystals</i> , 2010, 37, 987-996.	2.2	22
111	Liquid-crystalline phases formed by symmetrical azines with different terminal chains: Thermal, optical and electrical study. <i>Synthetic Metals</i> , 2010, 160, 859-865.	3.9	22
112	Towards Organized Hybrid Nanomaterials at the Air/Water Interface Based on Liquid-Crystal/ZnO Nanocrystals. <i>Chemistry - A European Journal</i> , 2015, 21, 16941-16947.	3.3	22
113	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.	2.2	21
114	New compounds with a TGBA-TGBC-SmC* phase sequence. <i>Liquid Crystals</i> , 2010, 37, 129-137.	2.2	21
115	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. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2850-2859.	2.6	21
116	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.	1.3	21
117	Switchable fluorescent liquid crystals. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	20
118	Evidence for general tilt columnar liquid crystalline phase. <i>Soft Matter</i> , 2009, 5, 2281.	2.7	20
119	The effect of a thiophene ring in the outer position on mesomorphic properties of the bent-shaped liquid crystals. <i>Journal of Materials Chemistry</i> , 2010, 20, 7430.	6.7	20
120	Polar and Apolar Columnar Phases Made of Bent-Core Mesogens. <i>Topics in Current Chemistry</i> , 2011, 318, 281-302.	4.0	20
121	Reentrant orthogonal smectic- $A$ phase below a tilted smectic- $C$ phase in a chiral compound. <i>Physical Review E</i> , 2013, 88, 022701.	2.1	20
122	Ferroelectric, antiferroelectric and TGB phases in lactic acid derivatives. <i>Liquid Crystals</i> , 2012, 39, 477-486.	2.2	20
123	Naphthalene-based bent-shaped liquid crystals with a semifluorinated terminal chain. <i>Liquid Crystals</i> , 2012, 39, 755-767.	2.2	20
124	Monotropic or enantiotropic mesophases? Liquid-crystalline and solid state polymorphism 4-Chloro-1,3-phenylene bis-[4-(4-alkyloxyphenylazo)benzoates. <i>Thermochimica Acta</i> , 2014, 587, 59-66.	2.7	20
125	Mesomorphic phase transitions of 3F7HPPhF studied by complementary methods. <i>Phase Transitions</i> , 2018, 91, 186-198.	1.3	20
126	Ordered structures of alkylated carbon dots and their applications in nonlinear optics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8980-8991.	5.5	20



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127	Chiral liquid crystalline compounds with a re-entrant SmA* phase. <i>Journal of Materials Chemistry</i> , 2011, 21, 14807.	6.7	19
128	Stable electro-optic response in wide-temperature blue phases realized in chiral asymmetric bent dimers [Invited]. <i>Optical Materials Express</i> , 2014, 4, 662.	3.0	19
129	Direct Visualization of Optical Activity in Chiral Substances Using a Helical Nanofilament (B4) Liquid Crystal Phase. <i>Advanced Optical Materials</i> , 2019, 7, 1901399.	7.3	19
130	Organic nanotubes created from mesogenic derivatives. <i>Nanoscale Advances</i> , 2019, 1, 2835-2839.	4.6	19
131	Self-assembling behaviour of new functional photosensitive cinnamoyl-based reactive mesogens. <i>Liquid Crystals</i> , 2020, 47, 2276-2291.	2.2	19
132	Behavior of frustrated phase in ferroelectric and antiferroelectric liquid crystalline mixtures. <i>Physical Review E</i> , 2000, 61, 6674-6677.	2.1	18
133	Characterisation and mesomorphic behaviour of new aliphatic aromatic azomethines containing ester groups. <i>Liquid Crystals</i> , 2010, 37, 1479-1492.	2.2	18
134	Thermal and current-voltage behaviour of liquid crystal compounds with rod and bent shapes comprising alkoxysemifluorinated and imine segments. <i>Liquid Crystals</i> , 2010, 37, 1021-1031.	2.2	18
135	Anomalous phase sequence in new chiral liquid crystalline materials. <i>Liquid Crystals</i> , 2014, 41, 176-183.	2.2	18
136	Thermal and Photophysical Properties of Highly Quadrupolar Liquid Crystalline Derivatives of the [closo-B <sub>12</sub> H <sub>12</sub> ] <sup>2+</sup> Anion. <i>Chemistry - A European Journal</i> , 2019, 25, 2616-2630.	3.3	18
137	Photonic Bandgap in Achiral Liquid Crystals – A Twist on a Twist. <i>Advanced Materials</i> , 2021, 33, e2103288.	21.0	18
138	Nanocomposite of superparamagnetic maghemite nanoparticles and ferroelectric liquid crystal. <i>RSC Advances</i> , 2013, 3, 10919.	3.6	17
139	From Sponges to Nanotubes: A Change of Nanocrystal Morphology for Acute Angle Bent-Core Molecules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12238-12242.	13.8	17
140	Effect of lactate group in the chiral chain of new compounds exhibiting short-pitch cholesteric or TGBA phase. <i>Liquid Crystals</i> , 2018, 45, 1155-1163.	2.2	17
141	Photosensitive bent-core nematic liquid crystals with various linking units in the side arms: Structure-properties relationships. <i>Journal of Molecular Liquids</i> , 2020, 306, 112743.	4.9	17
142	Controlling spontaneous chirality in achiral materials: liquid crystal oligomers and the heliconical twist-bend nematic phase. <i>Chemical Communications</i> , 2022, 58, 5285-5288.	4.1	17
143	New series of 4-(4-octyloxybiphenyl-4-yloxy)methyl)benzoic acid derivatives with mesogenic properties. <i>Journal of Materials Chemistry</i> , 1999, 9, 361-369.	6.7	16
144	Eu(III)-coupled luminescent multi-walled carbon nanotubes in surfactant solutions. <i>Carbon</i> , 2012, 50, 436-443.	10.3	16

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145	Multicritical point involving hexatic smectic phases. <i>Physical Review E</i> , 1995, 52, 1748-1752.	2.1	15
146	Synthesis and properties of a new series of mesogenic compounds with pyridine, oxidopyridinium, thienyl and furyl moieties. <i>Journal of Materials Chemistry</i> , 2001, 11, 741-748.	6.7	15
147	Symmetric bent-core mesogens with m-carborane and adamantane as the central units. <i>Journal of Materials Chemistry</i> , 2008, 18, 2978.	6.7	15
148	Phase diagram of new lactic acid derivatives exhibiting ferro- and antiferroelectric phases. <i>Liquid Crystals</i> , 2008, 35, 975-985.	2.2	15
149	A Liquid-Crystalline Co-Polysiloxane with Asymmetric Bent Side Chains. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 191-197.	2.2	15
150	3-Aminophenol based bent-shaped liquid crystals with an amide linking group. <i>Liquid Crystals</i> , 2012, 39, 943-955.	2.2	15
151	Gold nanoparticles with flexible mesogenic grafting layers. <i>Soft Matter</i> , 2013, 9, 3005.	2.7	15
152	How much do coulombic interactions stabilize a mesophase? Ion pair and non-ionic binary isosteric derivatives of monocarborates and carboranes. <i>RSC Advances</i> , 2014, 4, 53907-53914.	3.6	15
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