

Ewa Gorecka

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282
papers

6,771
citations

42
h-index

68
g-index

297
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7,358
ext. citations

4.7
avg, IF

5.78
L-index

#	Paper	IF	Citations
282	Antiferroelectric Chiral Smectic Phases Responsible for the Trislable Switching in MHPOBC. <i>Japanese Journal of Applied Physics</i> , 1989 , 28, L1265-L1268	1.4	624
281	Molecular Orientational Structures in Ferroelectric, Ferrielectric and Antiferroelectric Smectic Liquid Crystal Phases as Studied by Conoscope Observation. <i>Japanese Journal of Applied Physics</i> , 1990 , 29, 131-137	1.4	205
280	Heliconical smectic phases formed by achiral molecules. <i>Nature Communications</i> , 2018 , 9, 228	17.4	130
279	Dynamically self-assembled silver nanoparticles as a thermally tunable metamaterial. <i>Nature Communications</i> , 2015 , 6, 6590	17.4	127
278	Antiferroelectric liquid crystals: Interplay of simplicity and complexity. <i>Reviews of Modern Physics</i> , 2010 , 82, 897-937	40.5	122
277	Bent-core liquid crystals forming two- and three-dimensional modulated structures. <i>Physical Review E</i> , 2003 , 67, 031702	2.4	122
276	Why do non-symmetric dimers intercalate? The synthesis and characterisation of the π -[4-benzylidene-substituted-aniline-4'-oxy]- π [2-methylbutyl-4'-(4'-phenyl)benzoateoxy]alkanes. <i>Liquid Crystals</i> , 2009 , 36, 1431-1441	2.3	111
275	Axially polar columnar phase made of polycatenar bent-shaped molecules. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15946-7	16.4	109
274	Liquid-crystalline phases made of gold nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5167-9	16.4	86
273	Switchable columnar phases. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2412		86
272	A Twist-Bend Nematic (NTB) Phase of Chiral Materials. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10155-9	16.4	84
271	Electric-field-induced polar biaxial order in a nontilted smectic phase of an asymmetric bent-core liquid crystal. <i>Physical Review Letters</i> , 2006 , 97, 113901	7.4	82
270	Spontaneous chirality through mixing achiral components: a twist-bend nematic phase driven by hydrogen-bonding between unlike components. <i>Chemical Communications</i> , 2018 , 54, 3383-3386	5.8	81
269	Structure studies of the nematic phase formed by bent-core molecules. <i>Physical Review E</i> , 2009 , 80, 030701	7.4	81
268	Do the short helices exist in the nematic TB phase?. <i>Liquid Crystals</i> , 2015 , 42, 1-7	2.3	76
267	Nematic phase formed by banana-shaped molecules. <i>Liquid Crystals</i> , 2000 , 27, 429-436	2.3	75
266	Multi-level chirality in liquid crystals formed by achiral molecules. <i>Nature Communications</i> , 2019 , 10, 1922	7.4	73

265	Antiferroelectric phase and tristable-switching in MHPOBC. <i>Ferroelectrics</i> , 1991 , 114, 187-197	0.6	73
264	Ferroelectric mesophase with randomized interlayer structure. <i>Physical Review Letters</i> , 2003 , 91, 185501-4	1.4	72
263	Enantiomeric excess dependence of the phase diagram of antiferroelectric liquid crystals. <i>Physical Review E</i> , 2002 , 65, 061703	2.4	72
262	Design and assembly of pH-sensitive lipidic cubic phase matrices for drug release. <i>Langmuir</i> , 2014 , 30, 1383-90	4	70
261	Electric-Field-Induced Transitions among Antiferroelectric, Ferrielectric and Ferroelectric Phases in a Chiral Smectic MHPOBC. <i>Japanese Journal of Applied Physics</i> , 1990 , 29, L1473-L1476	1.4	69
260	Ferroelectric phases in a chiral bent-core smectic liquid crystal: dielectric and optical second-harmonic generation measurements. <i>Physical Review E</i> , 2000 , 62, R4524-7	2.4	68
259	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-alkyloxyanilinebenzylidene-4'-oxy)hexanes. <i>Liquid Crystals</i> , 2018 , 45, 2341-2351	2.3	66
258	Ideal Liquid Crystal Display Mode Using Achiral Banana-Shaped Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L282-L284	1.4	62
257	Theoretical and experimental study of the intermediate Sm CFI 2* and the Sm CFI 1* phases in antiferroelectric liquid crystals. <i>Journal of Chemical Physics</i> , 2002 , 117, 1817-1826	3.9	61
256	Switching mechanism in polar columnar mesophases made of bent-core molecules. <i>ChemPhysChem</i> , 2005 , 6, 1087-93	3.2	60
255	Structure of nanoscale-pitch helical phases: blue phase and twist-bend nematic phase resolved by resonant soft X-ray scattering. <i>Soft Matter</i> , 2017 , 13, 6694-6699	3.6	59
254	Molecular curvature, specific intermolecular interactions and the twist-bend nematic phase: the synthesis and characterisation of the 1-(4-cyanobiphenyl-4-Tyl)-6-(4-alkylanilinebenzylidene-4Foxy)hexanes (CB6O.m). <i>Soft Matter</i> , 2019 , 15, 2188-2197	3.6	57
253	Sulfur-linked cyanobiphenyl-based liquid crystal dimers and the twist-bend nematic phase. <i>Liquid Crystals</i> , 2019 , 46, 1595-1609	2.3	56
252	Strong two-photon absorption enhancement in a unique bis-porphyrin bearing a diketopyrrolopyrrole unit. <i>Chemical Communications</i> , 2013 , 49, 8368-70	5.8	54
251	Multidimensional structures made by gold nanoparticles with shape-adaptive grafting layers. <i>Soft Matter</i> , 2010 , 6, 5397	3.6	53
250	Odd-even effect in biphenyl-based symmetrical dimers with methylene spacer: Evidence of the B4 phase. <i>Liquid Crystals</i> , 2008 , 35, 401-406	2.3	52
249	Physical gels made of liquid crystalline B4 phase. <i>Chemical Communications</i> , 2013 , 49, 3119-21	5.8	51
248	Lyotropic Cubic Phases for Drug Delivery: Diffusion and Sustained Release from the Mesophase Evaluated by Electrochemical Methods. <i>Langmuir</i> , 2015 , 31, 12753-61	4	48

- 247 Liquid crystal phases formed by asymmetric bent-shaped molecules. *Journal of Materials Chemistry*, **2003**, 13, 2132 48
- 246 Induced antiferroelectric smectic- C*(A) phase by doping ferroelectric- C* phase with bent-shaped molecules. *Physical Review Letters*, **2000**, 85, 2526-9 7.4 47
- 245 Photoresponsive helical nanofilaments of B4 phase. *Journal of Materials Chemistry C*, **2014**, 2, 2323-2327.1 46
- 244 Multiple nematic phases observed in chiral mesogenic dimers. *Journal of Materials Chemistry C*, **2013**, 1, 46-49 7.1 46
- 243 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 43
- 242 Bent-core molecules with lateral halogen atoms forming tilted, synclinic and anticlinic, lamellar phases. *Journal of Materials Chemistry*, **2004**, 14, 2374 43
- 241 Reentrant ferroelectricity in liquid crystals. *Physical Review Letters*, **2001**, 86, 3048-51 7.4 43
- 240 Eu³⁺ and Tb³⁺ doped LaPO₄ nanorods, modified with a luminescent organic compound, exhibiting tunable multicolour emission. *RSC Advances*, **2014**, 4, 46305-46312 3.7 42
- 239 Re-entrant isotropic phase between lamellar and columnar mesophases. *Journal of the American Chemical Society*, **2002**, 124, 8884-90 16.4 42
- 238 Monoolein Cubic Phase Gels and Cubosomes Doped with Magnetic Nanoparticles-Hybrid Materials for Controlled Drug Release. *ACS Applied Materials & Interfaces*, **2017**, 9, 2796-2805 9.5 41
- 237 Metal nanoparticles with liquid-crystalline ligands: controlling nanoparticle superlattice structure and properties. *ChemPhysChem*, **2014**, 15, 1283-95 3.2 41
- 236 Anion-driven mesogenicity: a comparative study of ionic liquid crystals based on the [closo-1-CB9H10] and [closo-1-CB11H12] clusters. *Journal of Materials Chemistry*, **2012**, 22, 4874 40
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- 234 Modulated structures in bent-core liquid crystals: two faces of one phase. *Physical Review Letters*, **2007**, 98, 247802 7.4 38
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- 230 Temperature-controlled liquid crystalline polymorphism of gold nanoparticles. *Soft Matter*, **2011**, 7, 1056-61 36

- 229 Paraelectric-antiferroelectric phase transition in achiral liquid crystals. *Physical Review E*, **2005**, 72, 060701-14 36
- 228 Observation of a Frustrated Phase in Mixtures of Ferroelectric and Antiferroelectric Liquid Crystals. *Physical Review Letters*, **1998**, 81, 2946-2949 7.4 36
- 227 Ionic Strength-Controlled Deposition of Charged Nanoparticles on a Solid Substrate. *Journal of Physical Chemistry C*, **2011**, 115, 19096-19103 3.8 34
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- 216 Thermotropic cubic and tetragonal phases made of rod-like molecules. *Physical Chemistry Chemical Physics*, **2014**, 16, 16067-74 3.6 29
- 215 Incorporation of carbon nanotubes into a lyotropic liquid crystal by phase separation in the presence of a hydrophilic polymer. *Langmuir*, **2010**, 26, 3562-8 4 28
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- 212 Electron Density Modulations in Columnar Banana Phases. *Chemistry of Materials*, **2007**, 19, 3027-3031 9.6 28

211	Evidence of germanium segregation in gold thin films. <i>Surface Science</i> , 2018 , 674, 73-78	1.8	27
210	Smectic mesophases of functionalized silver and gold nanoparticles with anisotropic plasmonic properties. <i>Chemical Communications</i> , 2013 , 49, 7845-7	5.8	27
209	Non-symmetric chiral isoflavone dimers: synthesis, characterisation and mesomorphic behaviour. <i>Liquid Crystals</i> , 2012 , 39, 1041-1047	2.3	26
208	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, 213-22	3.8	26
207	Syntheses and characterization of novel asymmetric bent-core mesogens exhibiting polar smectic phases. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4240		26
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205	Modulated and intercalated smectic phases formed by dimeric molecules. <i>Journal of Materials Chemistry</i> , 2003 , 13, 34-37		26
204	Short-range smectic fluctuations and the flexoelectric model of modulated nematic liquid crystals. <i>Physical Review E</i> , 2016 , 93, 022704	2.4	25
203	Optimum deposition conditions of ultrasmooth silver nanolayers. <i>Nanoscale Research Letters</i> , 2014 , 9, 153	5	25
202	Molecular factors responsible for the formation of the axially polar columnar mesophase Col(h)P(A). <i>Chemistry - A European Journal</i> , 2007 , 13, 3377-85	4.8	25
201	First symmetrical banana compounds exhibiting SmAP(R) mesophase and unique transition between two orthogonal polar phases. <i>Chemical Communications</i> , 2009 , 6592-4	5.8	24
200	Columnar mesomorphism of bi- and trinuclear Ni(II), Cu(II), and VO(II) cis-enammonoketone complexes with low symmetry. <i>Inorganic Chemistry</i> , 2000 , 39, 4879-85	5.1	24
199	Twist-Bend Nematogenic Supramolecular Dimers and Trimers Formed by Hydrogen Bonding. <i>Crystals</i> , 2020 , 10, 175	2.3	23
198	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	7.1	23
197	Ferroelectric behavior of orthogonal smectic phase made of bent-core molecules. <i>Physical Review E</i> , 2011 , 84, 031706	2.4	23
196	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, 8821-8	4	22
195	H-shaped liquid crystalline dimers. <i>Liquid Crystals</i> , 2011 , 38, 149-154	2.3	22
194	Calamitic or columnar mesomorphism determined by number and position of substituents in enammonoketone Cu(II), Ni(II) and Co(II) complexes. <i>Liquid Crystals</i> , 1998 , 25, 117-121	2.3	22

193	2-D Density-modulated structures in asymmetric bent-core liquid crystals. <i>Journal of Materials Chemistry</i> , 2008 , 18, 881		22
192	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	3.9	22
191	Monolayer Filaments versus Multilayer Stacking of Bent-Core Molecules. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3468-72	16.4	22
190	Directed self-assembly of a helical nanofilament liquid crystal phase for use as structural color reflectors. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	21
189	Effect of co-monomers/Trelative concentration on self-assembling behaviour of side-chain liquid crystalline elastomers. <i>RSC Advances</i> , 2014 , 4, 44056-44064	3.7	21
188	Phototunable liquid-crystalline phases made of nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13725-8	16.4	21
187	Evidence for general tilt columnar liquid crystalline phase. <i>Soft Matter</i> , 2009 , 5, 2281	3.6	20
186	Enaminoketones as calamitic liquid crystals with a novel hydrogen-bonded rigid core. <i>Liquid Crystals</i> , 1991 , 10, 593-595	2.3	20
185	Stable electro-optic response in wide-temperature blue phases realized in chiral asymmetric bent dimers [Invited]. <i>Optical Materials Express</i> , 2014 , 4, 662	2.6	19
184	Polar and apolar columnar phases made of bent-core mesogens. <i>Topics in Current Chemistry</i> , 2012 , 318, 281-302		19
183	Structural studies of the bond-orientational order and hexatic-smectic transition in liquid crystals of various compositions. <i>Soft Matter</i> , 2017 , 13, 3240-3252	3.6	18
182	Organic nanotubes created from mesogenic derivatives. <i>Nanoscale Advances</i> , 2019 , 1, 2835-2839	5.1	18
181	Hydrogen bonding and the design of twist-bend nematogens. <i>Journal of Molecular Liquids</i> , 2020 , 303, 112630	6	18
180	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, 2850-9	3.8	18
179	Behavior of frustrated phase in ferroelectric and antiferroelectric liquid crystalline mixtures. <i>Physical Review E</i> , 2000 , 61, 6674-7	2.4	18
178	Switchable fluorescent liquid crystals. <i>Applied Physics Letters</i> , 2009 , 95, 171901	3.4	17
177	Reentrant orthogonal smectic-A phase below a tilted smectic-C phase in a chiral compound. <i>Physical Review E</i> , 2011 , 83, 020701	2.4	17
176	Novel Series of Enaminoketone Liquid Crystals Having Hexatic Smectic B Phase. <i>Molecular Crystals and Liquid Crystals</i> , 1993 , 237, 75-84		17

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174	Synthesis, characterisation and functionalisation of ZnO and TiO ₂ nanostructures: used as dopants in liquid crystal polymers. <i>Liquid Crystals</i> , 2014 , 41, 91-100	2.3	16
173	Nanocomposite of superparamagnetic maghemite nanoparticles and ferroelectric liquid crystal. <i>RSC Advances</i> , 2013 , 3, 10919	3.7	16
172	Chirality of Liquid Crystals Formed from Achiral Molecules Revealed by Resonant X-Ray Scattering. <i>Advanced Materials</i> , 2020 , 32, e1905591	24	15
171	Molecular Packing in Double Gyroid Cubic Phases Revealed via Resonant Soft X-Ray Scattering. <i>Physical Review Letters</i> , 2020 , 125, 027801	7.4	15
170	Enzymes and mediators hosted together in lipidic mesophases for the construction of biodevices. <i>Journal of Colloid and Interface Science</i> , 2012 , 385, 130-6	9.3	15
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165	From Sponges to Nanotubes: A Change of Nanocrystal Morphology for Acute-Angle Bent-Core Molecules. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12238-42	16.4	15
164	All-organic liquid crystalline radicals with a spin unit in the outer position of a bent-core system. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11540-11547	7.1	14
163	Linkage-length dependent structuring behaviour of bent-core molecules in helical nanostructures. <i>Soft Matter</i> , 2016 , 12, 3326-30	3.6	14
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160	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		14
159	Smectic polymorphism in a series of three-ring enamino-ketone compounds. <i>Liquid Crystals</i> , 1993 , 14, 1837-1846	2.3	14
158	Paramagnetic liquid-crystalline complexes based on novel enamino-ketone ligands. <i>Liquid Crystals</i> , 1992 , 11, 797-802	2.3	14

157	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	7.1	14
156	Twist-Bend Nematic Glasses: The Synthesis and Characterisation of Pyrene-based Nonsymmetric Dimers. <i>ChemPhysChem</i> , 2021 , 22, 461-470	3.2	14
155	Double gyroid structures made of asymmetric dimers. <i>Liquid Crystals</i> , 2016 , 43, 235-240	2.3	13
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150	Liquid-Crystalline Phases Made of Gold Nanoparticles. <i>Angewandte Chemie</i> , 2009 , 121, 5269-5271	3.6	13
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148	Evidence of the smectic antiphase in 4-decyloxybiphenyl ester imide derivatives. <i>Journal of Materials Chemistry</i> , 1999 , 9, 371-374		13
147	Multicritical point involving hexatic smectic phases. <i>Physical Review E</i> , 1995 , 52, 1748-1752	2.4	13
146	Phenyl-cyclohexyl enamino ketone ligands and their Cu(II) complexes. <i>Liquid Crystals</i> , 1993 , 14, 773-784	2.3	13
145	Liquid crystal dimers and the twist-bend nematic phase: On the role of spacers and terminal alkyl chains. <i>Journal of Molecular Liquids</i> , 2020 , 320, 114391	6	13
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140	Optical properties of thiophene-containing liquid crystalline and hybrid liquid crystalline materials. <i>New Journal of Chemistry</i> , 2014 , 38, 2927-2934	3.6	12

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- 130 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 2.3 11
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- 127 Gelling and fluorescent mesogens of quinoxaline analogs. *Journal of Materials Chemistry C*, **2013**, 1, 6883-7.1 11
- 126 Morphological changes of gold nanoparticles due to adsorption onto silicon substrate and oxygen plasma treatment. *RSC Advances*, **2014**, 4, 12729-12736 3.7 11
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- 124 Spontaneous breaking of minimal surface condition: labyrinths in free standing smectic films. *Physical Review Letters*, **2005**, 95, 207801 7.4 11
- 123 Dielectric spectroscopy study of the transition into the hexatic phase in chiral smectics. *Ferroelectrics*, **2000**, 245, 43-50 0.6 11
- 122 Supramolecular liquid crystals exhibiting a chiral twist-bend nematic phase. *Materials Advances*, **2020**, 1, 1622-1630 3.3 11

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120	Optically Active Cubic Liquid Crystalline Phase Made of Achiral Polycatenar Stilbene Derivatives. <i>Chemistry - A European Journal</i> , 2017 , 23, 6853-6857	4.8	10
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