

# Joseph E MacLennan

## List of Publications by Citations

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134  
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144  
ext. papers

6,056  
ext. citations

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avg, IF

5.03  
L-index

#	Paper	IF	Citations
134	Spontaneous formation of macroscopic chiral domains in a fluid smectic phase of achiral molecules. <i>Science</i> , <b>1997</b> , 278, 1924-7	33.3	1081
133	Chiral heliconical ground state of nanoscale pitch in a nematic liquid crystal of achiral molecular dimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 15931-6	11.5	368
132	A ferroelectric liquid crystal conglomerate composed of racemic molecules. <i>Science</i> , <b>2000</b> , 288, 2181-4	33.3	283
131	Polarization-modulated smectic liquid crystal phases. <i>Science</i> , <b>2003</b> , 301, 1204-11	33.3	271
130	Chiral isotropic liquids from achiral molecules. <i>Science</i> , <b>2009</b> , 325, 452-6	33.3	224
129	Electro-optic behavior of liquid-crystal-filled silica opal photonic crystals: effect of liquid-crystal alignment. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4052-5	7.4	219
128	Twist-bend heliconical chiral nematic liquid crystal phase of an achiral rigid bent-core mesogen. <i>Physical Review E</i> , <b>2014</b> , 89, 022506	2.4	181
127	Resonant Carbon K-Edge Soft X-Ray Scattering from Lattice-Free Heliconical Molecular Ordering: Soft Dilative Elasticity of the Twist-Bend Liquid Crystal Phase. <i>Physical Review Letters</i> , <b>2016</b> , 116, 147803	7.4	134
126	Spontaneous ferroelectric order in a bent-core smectic liquid crystal of fluid orthorhombic layers. <i>Science</i> , <b>2011</b> , 332, 72-7	33.3	125
125	The case of thresholdless antiferroelectricity: polarization-stabilized twisted SmC* liquid crystals give V-shaped electro-optic response. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 1257-1261		116
124	Athermal photofluidization of glasses. <i>Nature Communications</i> , <b>2013</b> , 4, 1521	17.4	100
123	Director and layer structure of SSFLC cells. <i>Ferroelectrics</i> , <b>1988</b> , 85, 79-97	0.6	90
122	Electro-optic characteristics of de Vries tilted smectic liquid crystals: Analog behavior in the smectic A* and smectic C* phases. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4097-4099	3.4	86
121	Electrostatics and the electro-optic behaviour of chiral smectics C: 'block' polarization screening of applied voltage and 'V-shaped' switching. <i>Liquid Crystals</i> , <b>2000</b> , 27, 985-990	2.3	79
120	Novel stripe textures in nonchiral hexatic liquid-crystal films. <i>Physical Review Letters</i> , <b>1992</b> , 69, 2082-2085	5.4	74
119	Spontaneous liquid crystal and ferromagnetic ordering of colloidal magnetic nanoplates. <i>Nature Communications</i> , <b>2016</b> , 7, 10394	17.4	73
118	Simultaneous Observation of Electric Field Coupling to Longitudinal and Transverse Ferroelectricity in a Chiral Liquid Crystal. <i>Physical Review Letters</i> , <b>1996</b> , 77, 2237-2240	7.4	68

117	Chirality-preserving growth of helical filaments in the B4 phase of bent-core liquid crystals. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 12656-63	16.4	67
116	Director orientation in chevron surface-stabilized ferroelectric liquid crystal cells. Verification of orientational binding at the chevron interface using visible polarized light transmission spectroscopy. <i>Liquid Crystals</i> , <b>1990</b> , 7, 753-785	2.3	57
115	Director reorientation dynamics in chevron ferroelectric liquid crystal cells. <i>Liquid Crystals</i> , <b>1990</b> , 7, 787-796	2.3	56
114	First-principles experimental demonstration of ferroelectricity in a thermotropic nematic liquid crystal: Polar domains and striking electro-optics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 14021-14031	11.5	55
113	Oriental bias of carbonyl groups in the chiral smectic C phase. <i>Ferroelectrics</i> , <b>1996</b> , 180, 213-225	0.6	55
112	Electric-field-induced chirality flipping in smectic liquid crystals: the role of anisotropic viscosity. <i>Physical Review Letters</i> , <b>2006</b> , 96, 067802	7.4	53
111	Photo-reversible liquid crystal alignment using azobenzene-based self-assembled monolayers: comparison of the bare monolayer and liquid crystal reorientation dynamics. <i>Langmuir</i> , <b>2010</b> , 26, 17482-8	7.4	52
110	Nanoconfinement of guest materials by helical nanofilament networks of bent-core mesogens. <i>Soft Matter</i> , <b>2013</b> , 9, 462-471	3.6	48
109	Structure and dynamics of ferroelectric liquid crystal cells exhibiting thresholdless switching. <i>Physical Review E</i> , <b>2002</b> , 65, 021708	2.4	48
108	Method for characterizing self-assembled monolayers as antirelaxation wall coatings for alkali vapor cells. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 023534	2.5	44
107	Topographic-pattern-induced homeotropic alignment of liquid crystals. <i>Physical Review E</i> , <b>2009</b> , 79, 041704	7.4	43
106	Anticlinic Smectic- C Surfaces on Smectic- A Freely Suspended Liquid-Crystal Films. <i>Physical Review Letters</i> , <b>1999</b> , 82, 2508-2511	7.4	43
105	Spontaneous Director Rotation in Freely Suspended Ferroelectric Liquid-Crystal Films. <i>Europhysics Letters</i> , <b>1990</b> , 13, 435-440	1.6	43
104	Crossover between 2D and 3D fluid dynamics in the diffusion of islands in ultrathin freely suspended smectic films. <i>Physical Review Letters</i> , <b>2010</b> , 105, 268304	7.4	42
103	Giant-block twist grain boundary smectic phases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 14191-6	11.5	39
102	Probing and controlling liquid crystal helical nanofilaments. <i>Nano Letters</i> , <b>2015</b> , 15, 3420-4	11.5	38
101	Interface structure of the dark conglomerate liquid crystal phase. <i>Soft Matter</i> , <b>2011</b> , 7, 1879-1883	3.6	37
100	Two-dimensional microrheology of freely suspended liquid crystal films. <i>Physical Review Letters</i> , <b>2011</b> , 107, 268301	7.4	37

99	Textures in hexatic films of nonchiral liquid crystals: Symmetry breaking and modulated phases. <i>Physical Review E</i> , <b>1994</b> , 49, 3207-3224	2.4	37
98	Creation and structural comparison of ultrathin film assemblies: transferred freely suspended films and Langmuir-Blodgett films of liquid crystals. <i>Thin Solid Films</i> , <b>1992</b> , 210-211, 504-507	2.2	37
97	Solitary waves in ferroelectric liquid crystals. <i>Physical Review A</i> , <b>1986</b> , 34, 3554-3557	2.6	36
96	Structure of the B4 liquid crystal phase near a glass surface. <i>ChemPhysChem</i> , <b>2012</b> , 13, 155-9	3.2	35
95	Nanophase segregation in binary mixtures of a bent-core and a rodlike liquid-crystal molecule. <i>Physical Review E</i> , <b>2010</b> , 81, 011704	2.4	33
94	Ring-pattern dynamics in smectic-C* and smectic-C*A freely suspended liquid crystal films. <i>Physical Review Letters</i> , <b>2000</b> , 84, 5772-5	7.4	31
93	Topological ferroelectric bistability in a polarization-modulated orthogonal smectic liquid crystal. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 9681-7	16.4	28
92	Pretransitional orientational ordering of a calamitic liquid crystal by helical nanofilaments of a bent-core mesogen. <i>Langmuir</i> , <b>2010</b> , 26, 15541-5	4	28
91	Self-organization of bouncing oil drops: two-dimensional lattices and spinning clusters. <i>Physical Review E</i> , <b>2007</b> , 75, 056308	2.4	28
90	Diastereomeric liquid crystal domains at the mesoscale. <i>Nature Communications</i> , <b>2015</b> , 6, 7763	17.4	27
89	Transition moment orientation and rotational bias of three carbonyl groups in large polarization FLCs observed by polarized FTIR. <i>Liquid Crystals</i> , <b>2002</b> , 29, 27-37	2.3	27
88	Manipulation of Disk-Shaped Islands on Freely Suspended Smectic Films and Bubbles Using Optical Tweezers. <i>Ferroelectrics</i> , <b>2004</b> , 310, 131-135	0.6	26
87	Organization of liquid crystals on submicron scale topographic patterns with fourfold symmetry prepared by thiolene photopolymerization-based nanoimprint lithography. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 093518	2.5	25
86	Giant surface electroclinic effect in a chiral smectic A liquid crystal. <i>Liquid Crystals</i> , <b>2001</b> , 28, 117-123	2.3	25
85	Unusual thickness-dependent thermal behavior and anticlinic coupling in chiral smectic free-standing liquid-crystal films. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4048-51	7.4	25
84	Device Applications of Ferroelectric Liquid Crystals: Importance of Polarization Charge Interactions <b>1989</b> ,		24
83	Effect of high spontaneous polarization on defect structures and orientational dynamics of tilted chiral smectic freely suspended films. <i>Physical Review E</i> , <b>2005</b> , 71, 021704	2.4	23
82	Generalized Langevin-Debye model of the field dependence of tilt, birefringence, and polarization current near the de Vries smectic-A* to smectic-C* liquid crystal phase transition. <i>Physical Review E</i> , <b>2013</b> , 88, 062504	2.4	22

81	Orientational order parameters of a de Vries-type ferroelectric liquid crystal obtained by polarized Raman spectroscopy and x-ray diffraction. <i>Physical Review E</i> , <b>2012</b> , 85, 061703	2.4	22
80	Sub 100 Nanosecond Pretilted Planar-to-Homeotropic Reorientation of Nematic Liquid Crystals under High Electric Field. <i>Japanese Journal of Applied Physics</i> , <b>1998</b> , 37, 2587-2589	1.4	22
79	Triclinic fluid order. <i>Physical Review Letters</i> , <b>2010</b> , 104, 067801	7.4	21
78	Unraveling the Mystery of "Thresholdless Antiferroelectricity" High Contrast Analog Electro-Optics in Chiral Smectic Liquid Crystals. <i>Digest of Technical Papers SID International Symposium</i> , <b>1999</b> , 30, 409	0.5	21
77	Freely suspended liquid crystal film transfer: A new method of creating thin smectic films on solid substrates. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 917-919	3.4	20
76	Influence of ions on the "V-shaped" electro-optic response of ferroelectric liquid crystals. <i>Physical Review E</i> , <b>2001</b> , 63, 031703	2.4	19
75	Control of molecular orientation in electrostatically stabilized ferroelectric liquid crystals. <i>Physical Review Letters</i> , <b>2003</b> , 91, 175505	7.4	18
74	Polar electro-optic switching in droplets of an achiral nematic liquid crystal. <i>Liquid Crystals</i> , <b>1999</b> , 26, 1555-1561	2.3	18
73	Mutual diffusion of inclusions in freely suspended smectic liquid crystal films. <i>Physical Review Letters</i> , <b>2014</b> , 113, 128304	7.4	17
72	Transitions between paraelectric and ferroelectric phases of bent-core smectic liquid crystals in the bulk and in thin freely suspended films. <i>Physical Review E</i> , <b>2012</b> , 86, 051701	2.4	17
71	Surface-Freezing Transitions and Novel Tilted Hexatic Phases in Smectic Liquid-Crystal Films. <i>Physical Review Letters</i> , <b>1997</b> , 78, 2581-2584	7.4	17
70	Chiral Incommensurate Helical Phase in a Smectic of Achiral Bent-Core Mesogens. <i>Physical Review Letters</i> , <b>2019</b> , 122, 107801	7.4	16
69	Orientation Field Fracture in a Liquid Crystal: Metastable Anticlinic Molecular Tilt in Adjacent Layers in Smectic- C DOBAMBC and TFMHPOBC. <i>Physical Review Letters</i> , <b>1999</b> , 83, 3665-3668	7.4	16
68	Visible polarized light transmission spectroscopy of the electro-optic switching behaviour of surface stabilized ferroelectric liquid crystal cells. <i>Liquid Crystals</i> , <b>1991</b> , 10, 409-417	2.3	16
67	Polar in-plane surface orientation of a ferroelectric nematic liquid crystal: Polar monodomains and twisted state electro-optics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	15
66	Modeling dipolar and quadrupolar defect structures generated by chiral islands in freely suspended liquid crystal films. <i>Physical Review E</i> , <b>2009</b> , 80, 041708	2.4	14
65	Chiral random grain boundary phase of achiral hockey-stick liquid crystals. <i>Soft Matter</i> , <b>2014</b> , 10, 9105-9	3.6	13
64	de Gennes' triclinic smectics [not so far-fetched after all. <i>Liquid Crystals</i> , <b>2009</b> , 36, 1309-1317	2.3	13

63	Solitary Waves in Ferroelectric Liquid Crystals. <i>Partially Ordered Systems</i> , <b>1992</b> , 151-190		13
62	Realization of hydrodynamic experiments on quasi-2D liquid crystal films in microgravity. <i>Advances in Space Research</i> , <b>2017</b> , 60, 737-751	2.4	12
61	Experimental realization of an incompressible Newtonian fluid in two dimensions. <i>Physical Review E</i> , <b>2016</b> , 93, 012706	2.4	12
60	Chiral isotropic sponge phase of hexatic smectic layers of achiral molecules. <i>ChemPhysChem</i> , <b>2014</b> , 15, 1502-7	3.2	12
59	Effect of concentration on the photo-orientation and relaxation dynamics of self-assembled monolayers of mixtures of an azobenzene-based triethoxysilane with octyltriethoxysilane. <i>Langmuir</i> , <b>2011</b> , 27, 3336-42	4	12
58	V-shaped switching ferroelectric liquid crystal structure stabilized by dielectric surface layers. <i>Physical Review E</i> , <b>2008</b> , 77, 031707	2.4	12
57	Electric-field-driven deracemization. <i>ChemPhysChem</i> , <b>2007</b> , 8, 170-4	3.2	12
56	Direct Measurement of Interaction Forces Between Islands on Freely Suspended Smectic C Films Using Multiple Optical Tweezers. <i>Ferroelectrics</i> , <b>2006</b> , 344, 71-80	0.6	12
55	Supermolecular stereochemistry in ferroelectric liquid crystals. <i>Journal of Physical Organic Chemistry</i> , <b>2000</b> , 13, 830-836	2.1	12
54	The hysteretic behavior of V-shaped switching smectic materials. <i>Ferroelectrics</i> , <b>2000</b> , 246, 21-33	0.6	12
53	Direct observation of two-dimensional nematic and smectic ordering in freely suspended films of a bolaamphiphilic liquid crystal. <i>Soft Matter</i> , <b>2011</b> , 7, 9978	3.6	11
52	Effect of Conformational Chirality on Optical Activity Observed in a Smectic of Achiral, Bent-Core Molecules. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 6944-6950	3.4	10
51	Hydrodynamic interactions in freely suspended liquid crystal films. <i>Physical Review E</i> , <b>2016</b> , 94, 052701	2.4	10
50	Phase winding of a nematic liquid crystal by dynamic localized reorientation of an azo-based self-assembled monolayer. <i>Langmuir</i> , <b>2014</b> , 30, 9560-6	4	10
49	High extinction polarimeter for the precision measurement of the in-plane optical anisotropy of molecular monolayers. <i>Langmuir</i> , <b>2010</b> , 26, 11686-9	4	10
48	Field control of the surface electroclinic effect in chiral smectic-A liquid crystals. <i>Physical Review E</i> , <b>2004</b> , 69, 061716	2.4	10
47	Topography of bent-core liquid crystals at the air/liquid crystal interface. <i>Liquid Crystals</i> , <b>2013</b> , 40, 1730-1735		9
46	Spiral layer undulation defects in B7 liquid crystals. <i>Soft Matter</i> , <b>2013</b> , 9, 11303	3.6	9

45	Cooperative liquid-crystal alignment generated by overlaid topography. <i>Physical Review E</i> , <b>2011</b> , 83, 051708	2.4	9
44	Effective conductivity due to continuous polarization reorientation in fluid ferroelectrics. <i>Physical Review E</i> , <b>2011</b> , 84, 020701	2.4	9
43	Field alignment of bent-core smectic liquid crystals for analog optical phase modulation. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 191101	3.4	8
42	A molecular-dynamics simulation study of the switching dynamics of a nematic liquid crystal under an applied electrical field. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 9452-9459	3.9	8
41	Computer simulation of domain growth in ferroelectric liquid crystals. <i>Physical Review E</i> , <b>1995</b> , 52, 3904-3914	3.14	8
40	Preparation and Thermal Behavior of Freely-Suspended and Transferred Films Composed of a Single Compound, the Liquid Crystal 707PP. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1991</b> , 95, 1520-1525		8
39	Nanoparticle Aggregation and Fractal Growth in Fluid Smectic Membranes. <i>Molecular Crystals and Liquid Crystals</i> , <b>2015</b> , 611, 14-20	0.5	7
38	Photodegradation of azobenzene-based self-assembled monolayers characterized by in-plane birefringence. <i>Langmuir</i> , <b>2011</b> , 27, 10407-11	4	7
37	Director structures in achiral smectic C liquid crystal cells: field-induced twist domain nucleation. <i>Liquid Crystals</i> , <b>2006</b> , 33, 25-32	2.3	7
36	Biaxial model of the surface anchoring of bent-core smectic liquid crystals. <i>Physical Review E</i> , <b>2001</b> , 64, 031706	2.4	7
35	Thermal fluctuation effects in ferroelectric liquid-crystal polarization reversal: Light scattering from a transient domain-wall foam. <i>Physical Review A</i> , <b>1991</b> , 44, 2543-2557	2.6	7
34	Structure and dynamics of a two-dimensional colloid of liquid droplets. <i>Soft Matter</i> , <b>2019</b> , 15, 8156-8163	3.6	7
33	Electro-optic response of the anticlinic, antiferroelectric liquid-crystal phase of a biaxial bent-core molecule with tilt angle near 45°. <i>Physical Review E</i> , <b>2012</b> , 85, 031704	2.4	6
32	Phase behavior of liquid-crystal films exhibiting the surface smectic-L phase. <i>Physical Review E</i> , <b>1998</b> , 57, 6757-6760	2.4	6
31	Manipulating the twist sense of helical nanofilaments of bent-core liquid crystals using rod-shaped, chiral mesogenic dopants. <i>Liquid Crystals</i> , <b>2016</b> , 43, 1083-1091	2.3	5
30	Dynamics of cis isomers in highly sensitive amino-azobenzene monolayers: The effect of slow relaxation on photo-induced anisotropy. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 103521	2.5	5
29	Novel Stripe Textures in Nonchiral Hexatic Liquid-Crystal Films. <i>Physical Review Letters</i> , <b>1992</b> , 69, 3267-3267	3.67	5
28	The heliconical nematic twist-bend phase from classic bent-core benzylideneanilines with oligomethylene cores. <i>Molecular Crystals and Liquid Crystals</i> , <b>2017</b> , 647, 430-438	0.5	4

27	Freely suspended smectic films with in-plane temperature gradients. <i>New Journal of Physics</i> , <b>2019</b> , 21, 063033	2.9	4
26	Two-dimensional island emulsions in ultrathin, freely-suspended smectic liquid crystal films. <i>Soft Matter</i> , <b>2017</b> , 13, 6314-6321	3.6	4
25	Generalized dynamic domain shape calculation in ferroelectric liquid crystals. <i>Physical Review E</i> , <b>1996</b> , 53, 6074-6079	2.4	4
24	Optical Symmetry of Ferroelectric Liquid Crystal Cells. <i>Japanese Journal of Applied Physics</i> , <b>1990</b> , 29, L2239-L2242	2.4	4
23	Active microrheology of smectic membranes. <i>Physical Review E</i> , <b>2017</b> , 95, 022702	2.4	3
22	Aggregation-driven, re-entrant isotropic phase in a smectic liquid crystal material. <i>Liquid Crystals</i> , <b>2017</b> , 44, 769-783	2.3	3
21	Relating domain shape to growth velocity anisotropy: Inherent symmetry of the Wulff construction. <i>Physical Review E</i> , <b>1997</b> , 56, 1833-1837	2.4	3
20	Spontaneous formation of horizontal chevrons in smectic-C* liquid crystals. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1532-1534	3.4	3
19	New amphiphilic terphenyl liquid crystals for the preparation of highly ordered ultrathin films. <i>Makromolekulare Chemie Macromolecular Symposia</i> , <b>1991</b> , 46, 313-319		3
18	Switching Dynamics And Structures Of Ferroelectric Liquid Crystals In The Surface Stabilized Geometry <b>1988</b> ,		3
17	New SmAP Mesogens Designed for Analog Electrooptics Applications. <i>Materials</i> , <b>2017</b> , 10,	3.5	2
16	Link, MacleNNan, and Clark Reply:. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4975-4975	7.4	2
15	Coalescence of islands in freely suspended smectic films. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	2
14	A gas flow meter with linear sensitivity based on freely-suspended nanofilms of smectic liquid crystal. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 163705	3.4	1
13	Unusual Thickness-Dependent Thermal Behavior in Chiral Smectic Free-Standing Liquid-Crystal Films. <i>Molecular Crystals and Liquid Crystals</i> , <b>2004</b> , 412, 393-400	0.5	1
12	Novel Thickness-Dependent Thermal Behavior and Anticlinic Coupling in Chiral Smectic Free-Standing Liquid-Crystal Films. <i>Ferroelectrics</i> , <b>2002</b> , 277, 197-206	0.6	1
11	Design of Smectic Liquid Crystal Phases Using Layer Interface Clinicity. <i>ACS Symposium Series</i> , <b>2001</b> , 268-281	2.4	1
10	Personal-computer-based programmable temperature controller for general laboratory applications. <i>Review of Scientific Instruments</i> , <b>1985</b> , 56, 775-775	1.7	1



- 9 Scanned conical illumination as a probe of electro-optic retro-reflection. *Optics Express*, **2019**, 27, 18383-18398
- 8 Ideal mixing of paraelectric and ferroelectric nematic phases in liquid crystals of distinct molecular species. *Liquid Crystals*, 1-14 2.3 1
- 7 Transient hexagonal structures in sheared emulsions of isotropic inclusions on smectic bubbles in microgravity conditions. *Scientific Reports*, **2021**, 11, 19144 4.9 0
- 6 LCOPV Workshop Report. *Liquid Crystals Today*, **2011**, 20, 95-97 1.9
- 5 Education Liquid Crystal Outreach: The human Nematic Experiment. *Liquid Crystals Today*, **1997**, 7, 11-11 1.9
- 4 Surface-Freezing Transitions and Novel Tilted Hexatic Phases in Smectic Liquid-Crystal Thin Films. *Molecular Crystals and Liquid Crystals*, **1999**, 330, 251-258
- 3 Ferroelectric smectic liquid crystals in the bent-core family: alignment for V-shaped analog switching **1999**, 3800, 21
- 2 Antiferroelectric Liquid Crystals from Achiral Molecules And A Liquid Conglomerate. *Materials Research Society Symposia Proceedings*, **1999**, 559, 3
- 1 Frustration between two- and three-dimensional smectic ordering leads to a biaxial nematic phase. *Soft Matter*, **2020**, 16, 747-753 3.6