Noel A Clark

List of Publications by Year
in descending order

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497 papers	27,130 citations	6233 80 h-index	9073 144 g-index
516 all docs	516 docs citations	516 times ranked	9677 citing authors

#	Article	IF	Citations
1	Highly Stiff and Stretchable DNA Liquid Crystalline Organogels with Super Plasticity, Ultrafast Selfâ€Healing, and Magnetic Response Behaviors. Advanced Materials, 2022, 34, e2106208.	11.1	19
2	Precision adiabatic scanning calorimetry of a nematic â€“ ferroelectric nematic phase transition. Liquid Crystals, 2022, 49, 780-789.	0.9	5
3	Synthesis of Î³-graphyne using dynamic covalent chemistry. , 2022, 1, 449-454.		106
4	Ideal mixing of paraelectric and ferroelectric nematic phases in liquid crystals of distinct molecular species. Liquid Crystals, 2022, 49, 1531-1544.	0.9	25
5	Understanding and Manipulating Helical Nanofilaments in Binary Systems with Achiral Dopants. Nano Letters, 2022, 22, 4569-4575.	4.5	5
6	Moving while youâ€™re stuck: a macroscopic demonstration of an active system inspired by binding-mediated transport in biology. Soft Matter, 2021, 17, 2957-2962.	1.2	3
7	Mono- and bilayer smectic liquid crystal ordering in dense solutions of â€œgappedâ€•DNA duplexes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
8	Polar in-plane surface orientation of a ferroelectric nematic liquid crystal: Polar monodomains and twisted state electro-optics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	51
9	Coalescence of islands in freely suspended smectic films. Physical Review Research, 2021, 3, .	1.3	8
10	Surface alignment of ferroelectric nematic liquid crystals. Soft Matter, 2021, 17, 8130-8139.	1.2	38
11	End-to-end machine learning for experimental physics: using simulated data to train a neural network for object detection in video microscopy. Soft Matter, 2020, 16, 1751-1759.	1.2	23
12	Frustration between two- and three-dimensional smectic ordering leads to a biaxial nematic phase. Soft Matter, 2020, 16, 747-753.	1.2	0
13	Unique two-way free-standing thermo- and photo-responsive shape memory azobenzene-containing polyurethane liquid crystal network. Science China Materials, 2020, 63, 2590-2598.	3.5	20
14	First-principles experimental demonstration of ferroelectricity in a thermotropic nematic liquid crystal: Polar domains and striking electro-optics. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14021-14031.	3.3	174
15	Dendritic growth in a two-dimensional smectic E freely suspended film. Molecular Systems Design and Engineering, 2020, 5, 815-819.	1.7	3
16	CdSe quantum dots in chiral smectic C matrix: experimental evidence of smectic layer distortion by small and wide angle X-ray scattering and subsequent effect on electro-optical parameters. Liquid Crystals, 2019, 46, 376-385.	0.9	17
17	Nanoconfined heliconical structure of twist-bend nematic liquid crystal phase. Liquid Crystals, 2019, 46, 316-325.	0.9	6
18	Molecular p-doping in organic liquid crystalline semiconductors: influence of the charge transfer complex on the properties of mesophase and bulk charge transport. Physical Chemistry Chemical Physics, 2019, 21, 18686-18698.	1.3	10

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19	Freely suspended smectic films with in-plane temperature gradients. New Journal of Physics, 2019, 21, 063033.	1.2	6
20	Distinct differences in the nanoscale behaviors of the twistâ€“bend liquid crystal phase of a flexible linear trimer and homologous dimer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10698-10704.	3.3	62
21	A gas flow meter with linear sensitivity based on freely-suspended nanofilms of smectic liquid crystal. Applied Physics Letters, 2019, 114, .	1.5	6
22	Chiral Incommensurate Helical Phase in a Smectic of Achiral Bent-Core Mesogens. Physical Review Letters, 2019, 122, 107801.	2.9	21
23	Structure and dynamics of a two-dimensional colloid of liquid droplets. Soft Matter, 2019, 15, 8156-8163.	1.2	10
24	Autonomous Catalytic Nanomotors Based on 2D Magnetic Nanoplates. ACS Applied Nano Materials, 2019, 2, 1267-1273.	2.4	21
25	Scanned conical illumination as a probe of electro-optic retro-reflection. Optics Express, 2019, 27, 18383.	1.7	1
26	Chiral lyotropic chromonic liquid crystals composed of disodium cromoglycate doped with water-soluble chiral additives. Soft Matter, 2018, 14, 1511-1516.	1.2	25
27	Molecular weight dependence of carrier mobility and recombination rate in neat P3HT films. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 31-35.	2.4	42
28	Evidence of a first-order smectic-hexatic transition and its proximity to a tricritical point in smectic films. Physical Review E, 2018, 98, .	0.8	11
29	Nonenzymatic Polymerization into Long Linear RNA Templated by Liquid Crystal Self-Assembly. ACS Nano, 2018, 12, 9750-9762.	7.3	35
30	Highly Oriented Liquid Crystal Semiconductor for Organic Field-Effect Transistors. ACS Central Science, 2018, 4, 1495-1502.	5.3	37
31	Liquid crystal phase behavior of a DNA dodecamer and the chromonic dye Sunset Yellow. Physical Review E, 2018, 98, .	0.8	9
32	Backbone-free duplex-stacked monomer nucleic acids exhibiting Watsonâ€“Crick selectivity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7658-E7664.	3.3	42
33	Reconfigurable LC Elastomers: Using a Thermally Programmable Monodomain To Access Two-Way Free-Standing Multiple Shape Memory Polymers. Macromolecules, 2018, 51, 5812-5819.	2.2	92
34	Liquid Crystal Ordering of Four-Base-Long DNA Oligomers with Both Gâ€“C and Aâ€“T Pairing. Crystals, 2018, 8, 5.	1.0	11
35	A supramolecular hydrogel prepared from a thymine-containing artificial nucleolipid: study of assembly and lyotropic mesophases. Soft Matter, 2018, 14, 7045-7051.	1.2	10
36	Active microrheology of smectic membranes. Physical Review E, 2017, 95, 022702.	0.8	6

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37	Structural transitions and guest/host complexing of liquid crystal helical nanofilaments induced by nanoconfinement. Science Advances, 2017, 3, e1602102.	4.7	32
38	Realization of hydrodynamic experiments on quasi-2D liquid crystal films in microgravity. Advances in Space Research, 2017, 60, 737-751.	1.2	17
39	The heliconical nematic twist-bend phase from â€œclassicâ€•bent-core benzylideneanilines with oligomethylene cores. Molecular Crystals and Liquid Crystals, 2017, 647, 430-438.	0.4	5
40	Effect of Conformational Chirality on Optical Activity Observed in a Smectic of Achiral, Bent-Core Molecules. Journal of Physical Chemistry B, 2017, 121, 6944-6950.	1.2	12
41	Understanding the origin of liquid crystal ordering of ultrashort double-stranded DNA. Physical Review E, 2017, 95, 032702.	0.8	15
42	Aggregation-driven, re-entrant isotropic phase in a smectic liquid crystal material. Liquid Crystals, 2017, 44, 769-783.	0.9	4
43	High strain actuation liquid crystal elastomers via modulation of mesophase structure. Soft Matter, 2017, 13, 7537-7547.	1.2	106
44	Two-dimensional island emulsions in ultrathin, freely-suspended smectic liquid crystal films. Soft Matter, 2017, 13, 6314-6321.	1.2	8
45	Fabrication of Liquid Crystalline Polyurethane Networks with a Pendant Azobenzene Group to Access Thermal/Photoresponsive Shape-Memory Effects. ACS Applied Materials & Interfaces, 2017, 9, 24947-24954.	4.0	45
46	Thiolâ€acrylate mainâ€chain liquidâ€crystalline elastomers with tunable thermomechanical properties and actuation strain. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 157-168.	2.4	106
47	New SmAPF Mesogens Designed for Analog Electrooptics Applications. Materials, 2017, 10, 1284.	1.3	4
48	Homeotropic alignment of multiple bent-core liquid crystal phases using a polydimethylsiloxane alignment layer. , 2017, , .		0
49	SmAPf phase, its properties and potential dye alignment (Conference Presentation). , 2016, , .		0
50	Photoinduced and Thermal Relaxation in Surface-Grafted Azobenzene-Based Monolayers: A Molecular Dynamics Simulation Study. Langmuir, 2016, 32, 4004-4015.	1.6	21
51	Challenges in the Structure Determination of Self-Assembled Metallacages: What Do Cage Cavities Contain, Internal Vapor Bubbles or Solvent and/or Counterions?. Journal of the American Chemical Society, 2016, 138, 6676-6687.	6.6	10
52	Liquid Crystal Ordering and Isotropic Gelation in Solutions of Four-Base-Long DNA Oligomers. ACS Nano, 2016, 10, 8508-8516.	7.3	48
53	Spontaneous liquid crystal and ferromagnetic ordering of colloidal magnetic nanoplates. Nature Communications, 2016, 7, 10394.	5.8	94
54	Experimental realization of an incompressible Newtonian fluid in two dimensions. Physical Review E, 2016, 93, 012706.	0.8	15

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55	Resonant Carbon<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>K</mml:mi></mml:mrow></mml:math>-Edge Soft X-Ray Scattering from Lattice-Free Heliconical Molecular Ordering: Soft Dilative Elasticity of the Twist-Bend Liquid Crystal Phase. Physical Review Letters, 2016, 116, 147803.	2.9	157
56	Controlling the volatility of the written optical state in electrochromic DNA liquid crystals. Nature Communications, 2016, 7, 11476.	5.8	39
57	Hydrodynamic interactions in freely suspended liquid crystal films. Physical Review E, 2016, 94, 052701.	0.8	12
58	Host-guest chemistry in the helical nanofilament phase (Conference Presentation). , 2016, , .		0
59	Airflow-aligned helical nanofilament (B4) phase in topographic confinement. Scientific Reports, 2016, 6, 29111.	1.6	4
60	Phases and structures of sunset yellow and disodium cromoglycate mixtures in water. Physical Review E, 2016, 93, 012704.	0.8	12
61	Manipulating the twist sense of helical nanofilaments of bent-core liquid crystals using rod-shaped, chiral mesogenic dopants. Liquid Crystals, 2016, 43, 1083-1091.	0.9	6
62	Polypeptides: Solventâ€Free Liquid Crystals and Liquids Based on Genetically Engineered Supercharged Polypeptides with High Elasticity (Adv. Mater. 15/2015). Advanced Materials, 2015, 27, 2410-2410.	11.1	0
63	Molecular structure of the discotic liquid crystalline phase of hexa-peri-hexabenzocoronene/oligothiophene hybrid and their charge transport properties. Journal of Chemical Physics, 2015, 143, 144505.	1.2	20
64	Frontispiece: Solvent-free Liquid Crystals and Liquids from DNA. Chemistry - A European Journal, 2015, 21, n/a-n/a.	1.7	0
65	Solventâ€Free Liquid Crystals and Liquids Based on Genetically Engineered Supercharged Polypeptides with High Elasticity. Advanced Materials, 2015, 27, 2459-2465.	11.1	34
66	Probing and Controlling Liquid Crystal Helical Nanofilaments. Nano Letters, 2015, 15, 3420-3424.	4.5	42
67	Diastereomeric liquid crystal domains at the mesoscale. Nature Communications, 2015, 6, 7763.	5.8	33
68	Physico-chemical confinement of helical nanofilaments. Soft Matter, 2015, 11, 3653-3659.	1.2	17
69	Nanoparticle Aggregation and Fractal Growth in Fluid Smectic Membranes. Molecular Crystals and Liquid Crystals, 2015, 611, 14-20.	0.4	8
70	Multidimensional Helical Nanostructures in Multiscale Nanochannels. Langmuir, 2015, 31, 8156-8161.	1.6	16
71	Evidence of Liquid Crystalâ€“Assisted Abiotic Ligation of Nucleic Acids. Origins of Life and Evolution of Biospheres, 2015, 45, 51-68.	0.8	19
72	Fisheye lens conoscopy. Liquid Crystals, 2015, 42, 271-287.	0.9	13

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73	Solventâ€free Liquid Crystals and Liquids from DNA. Chemistry - A European Journal, 2015, 21, 4898-4903.	1.7	39
74	Abiotic ligation of DNA oligomers templated by their liquid crystal ordering. Nature Communications, 2015, 6, 6424.	5.8	42
75	Field alignment of bent-core smectic liquid crystals for analog optical phase modulation. Applied Physics Letters, 2015, 106, .	1.5	10
76	Nucleation and growth of a helical nanofilament (B4) liquid-crystal phase confined in nanobowls. Soft Matter, 2015, 11, 7778-7782.	1.2	9
77	Fluorescence Confocal Polarizing Microscopy of a Fluorescent Bentâ€Core Liquid Crystal Exhibiting Polarization Splay Modulated (B7) Structures and Defects. ChemPhysChem, 2015, 16, 243-255.	1.0	10
78	Thermotropic liquid crystals from biomacromolecules. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18596-18600.	3.3	61
79	Cybotactic behavior in the de Vries smectic-A* liquid-crystal structure formed by a silicon-containing molecule. Physical Review E, 2014, 89, 032502.	0.8	5
80	Mutual Diffusion of Inclusions in Freely Suspended Smectic Liquid Crystal Films. Physical Review Letters, 2014, 113, 128304.	2.9	20
81	Chiral random grain boundary phase of achiral hockey-stick liquid crystals. Soft Matter, 2014, 10, 9105-9109.	1.2	14
82	An Electricâ€Fieldâ€Responsive Discotic Liquidâ€Crystalline Hexaâ€periâ€Hexabenzocoronene/Oligothiophene Hybrid. Advanced Materials, 2014, 26, 2066-2071.	11.1	40
83	Orientation control over bent-core smectic liquid crystal phases. Liquid Crystals, 2014, 41, 328-341.	0.9	13
84	Orthogonal Orientation of Chromonic Liquid Crystals by Rubbed Polyamide Films. ChemPhysChem, 2014, 15, 1376-1380.	1.0	4
85	Ferroelectric and antiferroelectric oddâ€“even behavior in a tricarbosilane-terminated liquid crystal homologous series. Chemical Science, 2014, 5, 1869-1874.	3.7	8
86	Chiral Isotropic Sponge Phase of Hexatic Smectic Layers of Achiral Molecules. ChemPhysChem, 2014, 15, 1502-1507.	1.0	13
87	Charge Generation Measured for Fullereneâ€“Helical Nanofilament Liquid Crystal Heterojunctions. ACS Applied Materials & Interfaces, 2014, 6, 4823-4830.	4.0	35
88	Phase Winding of a Nematic Liquid Crystal by Dynamic Localized Reorientation of an Azo-Based Self-Assembled Monolayer. Langmuir, 2014, 30, 9560-9566.	1.6	11
89	Multistep hierarchical self-assembly of chiral nanopore arrays. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14342-14347.	3.3	53
90	Twist-bend heliconical chiral nematic liquid crystal phase of an achiral rigid bent-core mesogen. Physical Review E, 2014, 89, 022506.	0.8	212

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91	Topography of bent-core liquid crystals at the air/liquid crystal interface. Liquid Crystals, 2013, 40, 1730-1735.	0.9	10
92	Spiral layer undulation defects in B7 liquid crystals. Soft Matter, 2013, 9, 11303.	1.2	9
93	Ferromagnetic ferrofluids. Nature, 2013, 504, 229-230.	13.7	41
94	Generalized Langevin-Debye model of the field dependence of tilt, birefringence, and polarization current near the de Vries smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mo>*</mml:mo></mml:msup></mml:math>to smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi></mml:math>	0.8	23
95	New ionic organic compounds containing a linear tris(imidazolium) core and their thermotropic liquid crystal behaviour. Liquid Crystals, 2013, 40, 1067-1081.	0.9	29
96	Orientation of chromonic liquid crystals by topographic linear channels: multi-stable alignment and tactoid structure. Liquid Crystals, 2013, 40, 1736-1747.	0.9	25
97	Nanoconfinement of guest materials by helical nanofilament networks of bent-core mesogens. Soft Matter, 2013, 9, 462-471.	1.2	51
98	Self-assembled hydrophobic surface generated from a helical nanofilament (B4) liquid crystal phase. Soft Matter, 2013, 9, 2793.	1.2	28
99	Inclusion Compound Based Approach to Arrays of Artificial Dipolar Molecular Rotors: Bulk Inclusions. Journal of Organic Chemistry, 2013, 78, 1768-1777.	1.7	24
100	Propagation of Chirality in Mixtures of Natural and Enantiomeric DNA Oligomers. Physical Review Letters, 2013, 110, 107801.	2.9	19
101	Athermal photofluidization of glasses. Nature Communications, 2013, 4, 1521.	5.8	111
102	Elementary building blocks of nematic disclination networks in densely packed 3D colloidal lattices. Soft Matter, 2013, 9, 8203.	1.2	15
103	A Modulated Helical Nanofilament Phase. Angewandte Chemie - International Edition, 2013, 52, 5254-5257.	7.2	45
104	Alignment of helical nanofilaments on the surfaces of various self-assembled monolayers. Soft Matter, 2013, 9, 6185.	1.2	38
105	Microscopic origins of first-order Sm-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>â€“Sm-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi></mml:math>phase behavior in de Vries smectic liquid crystals. Physical Review E, 2013, 87, 050502.	0.8	6
106	Three-dimensional textures and defects of soft material layering revealed by thermal sublimation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19263-19267.	3.3	27
107	Chiral heliconical ground state of nanoscale pitch in a nematic liquid crystal of achiral molecular dimers. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15931-15936.	3.3	431
108	Temperature- and hydrogen-induced changes in the optical properties of Pd capped V thin films. Physica Scripta, 2012, 86, 065702.	1.2	3

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109	Electro-optic response of the anticlinic, antiferroelectric liquid-crystal phase of a biaxial bent-core molecule with tilt angle near 45â˜. Physical Review E, 2012, 85, 031704.	0.8	7
110	Liquid crystal self-assembly of random-sequence DNA oligomers. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1110-1115.	3.3	69
111	Surface energetics of freely suspended fluid molecular monolayer and multilayer smectic liquid crystal films. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12873-12877.	3.3	9
112	Topological Ferroelectric Bistability in a Polarization-Modulated Orthogonal Smectic Liquid Crystal. Journal of the American Chemical Society, 2012, 134, 9681-9687.	6.6	33
113	Transitions between paraelectric and ferroelectric phases of bent-core smectic liquid crystals in the bulk and in thin freely suspended films. Physical Review E, 2012, 86, 051701.	0.8	18
114	Dinuclear ortho-metallated palladium(II) azobenzene complexes with acetato and chloro bridges: Influence of polar substituents on the mesomorphic properties. Journal of Organometallic Chemistry, 2012, 712, 20-28.	0.8	15
115	Inclusion Compound Based Approach to Arrays of Artificial Dipolar Molecular Rotors. A Surface Inclusion. Journal of the American Chemical Society, 2012, 134, 10122-10131.	6.6	84
116	Alignment of the columnar liquid crystal phase of nano-DNA by confinement in channels. Liquid Crystals, 2012, 39, 571-577.	0.9	20
117	Structure of the B4 Liquid Crystal Phase near a Glass Surface. ChemPhysChem, 2012, 13, 155-159.	1.0	38
118	Chirality-Preserving Growth of Helical Filaments in the B4 Phase of Bent-Core Liquid Crystals. Journal of the American Chemical Society, 2011, 133, 12656-12663.	6.6	75
119	Direct observation of two-dimensional nematic and smectic ordering in freely suspended films of a bolaamphiphilic liquid crystal. Soft Matter, 2011, 7, 9978.	1.2	11
120	Effect of Concentration on the Photo-Orientation and Relaxation Dynamics of Self-Assembled Monolayers of Mixtures of an Azobenzene-Based Triethoxysilane with Octyltriethoxysilane. Langmuir, 2011, 27, 3336-3342.	1.6	12
121	Photodegradation of Azobenzene-Based Self-assembled Monolayers Characterized by In-Plane Birefringence. Langmuir, 2011, 27, 10407-10411.	1.6	7
122	Interface structure of the dark conglomerate liquid crystal phase. Soft Matter, 2011, 7, 1879-1883.	1.2	39
123	Spontaneous Ferroelectric Order in a Bent-Core Smectic Liquid Crystal of Fluid Orthorhombic Layers. Science, 2011, 332, 72-77.	6.0	141
124	Observation and Analysis of Smectic Islands In Space (OASIS). , 2011, , .		0
125	Design and synthesis of an achiral ferroelectric smectic liquid crystal. , 2011, , .		0
126	Dynamics of cis isomers in highly sensitive amino-azobenzene monolayers: The effect of slow relaxation on photo-induced anisotropy. Journal of Applied Physics, 2011, 109, 103521.	1.1	5

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127	Orientation of a Helical Nanofilament (B4) Liquidâ€Crystal Phase: Topographic Control of Confinement, Shear Flow, and Temperature Gradients. Advanced Materials, 2011, 23, 1962-1967.	11.1	42
128	Two-Dimensional Microrheology of Freely Suspended Liquid Crystal Films. Physical Review Letters, 2011, 107, 268301.	2.9	41
129	Cooperative liquid-crystal alignment generated by overlaid topography. Physical Review E, 2011, 83, 051708.	0.8	10
130	Effective conductivity due to continuous polarization reorientation in fluid ferroelectrics. Physical Review E, 2011, 84, 020701.	0.8	15
131	Ferroelectric behavior of orthogonal smectic phase made of bent-core molecules. Physical Review E, 2011, 84, 031706.	0.8	34
132	Three-dimensional structure and multistable optical switching of triple-twisted particle-like excitations in anisotropic fluids. Nature Materials, 2010, 9, 139-145.	13.3	270
133	Nanophase segregation in binary mixtures of a bent-core and a rodlike liquid-crystal molecule. Physical Review E, 2010, 81, 011704.	0.8	41
134	Triclinic Fluid Order. Physical Review Letters, 2010, 104, 067801.	2.9	23
135	Crossover between 2D and 3D Fluid Dynamics in the Diffusion of Islands in Ultrathin Freely Suspended Smectic Films. Physical Review Letters, 2010, 105, 268304.	2.9	46
136	Organization of the polarization splay modulated smectic liquid crystal phase by topographic confinement. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21311-21315.	3.3	70
137	Synthesis and physical properties of a main-chain chiral smectic thiol-ene oligomer. Liquid Crystals, 2010, 37, 325-334.	0.9	11
138	Four-ring achiral unsymmetrical bent core molecules forming strongly fluorescent smectic liquid crystals with spontaneous polar and chiral ordered B7 and B1 phases. Journal of Materials Chemistry, 2010, 20, 7332.	6.7	63
139	High Extinction Polarimeter for the Precision Measurement of the In-Plane Optical Anisotropy of Molecular Monolayers. Langmuir, 2010, 26, 11686-11689.	1.6	10
140	Liquid-crystal periodic zigzags from geometrical and surface-anchoring-induced confinement: Origin and internal structure from mesoscopic scale to molecular level. Physical Review E, 2010, 82, 041705.	0.8	21
141	Pretransitional Orientational Ordering of a Calamitic Liquid Crystal by Helical Nanofilaments of a Bent-Core Mesogen. Langmuir, 2010, 26, 15541-15545.	1.6	30
142	Photo-Reversible Liquid Crystal Alignment using Azobenzene-Based Self-Assembled Monolayers: Comparison of the Bare Monolayer and Liquid Crystal Reorientation Dynamics. Langmuir, 2010, 26, 17482-17488.	1.6	59
143	Right-handed double-helix ultrashort DNA yields chiral nematic phases with both right- and left-handed director twist. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17497-17502.	3.3	91
144	Effect of microstructure on magnetic properties and anisotropy distributions in Co/Pd thin films and nanostructures. Physical Review B, 2009, 80, .	1.1	49

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145	Modeling dipolar and quadrupolar defect structures generated by chiral islands in freely suspended liquid crystal films. Physical Review E, 2009, 80, 041708.	0.8	17
146	Chiral Isotropic Liquids from Achiral Molecules. Science, 2009, 325, 452-456.	6.0	250
147	On the Origin of the â€œGiantâ€•Electroclinic Effect in a â€œDe Vriesâ€â€Type Ferroelectric Liquid Crystal Material for Chirality Sensing Applications. ChemPhysChem, 2009, 10, 890-892.	1.0	18
148	A Mainâ€Chain de Vries Smectic Liquid Crystal Polymer Prepared by Hoveydaâ€“Grubbs Catalyst Initiated Acyclic Diene Metathesis Polymerization. Macromolecular Rapid Communications, 2009, 30, 1894-1899.	2.0	9
149	Topographic-pattern-induced homeotropic alignment of liquid crystals. Physical Review E, 2009, 79, 041701.	0.8	46
150	de Gennes' triclinic smectics â€“ not so far-fetched after all. Liquid Crystals, 2009, 36, 1309-1317.	0.9	16
151	Helical Nanofilament Phases. Science, 2009, 325, 456-460.	6.0	291
152	Novel liquid-crystalline mesogens and main-chain chiral smectic thiol-ene polymers based on trifluoromethylphenyl moieties. Journal of Materials Chemistry, 2009, 19, 7208.	6.7	29
153	Formation and Surface Modification of Nanopatterned Thiolâ€ene Substrates using Step and Flash Imprint Lithography. Advanced Materials, 2008, 20, 3308-3313.	11.1	91
154	Polarization splay as the origin of modulation in theB1andB7smectic phases of bent-core molecules. Physical Review E, 2008, 77, 021703.	0.8	39
155	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="sans-serif">V</mml:mi></mml:math>-shaped switching ferroelectric liquid crystal structure stabilized by dielectric surface layers. Physical Review E, 2008, 77, 031707.	0.8	14
156	Bistable SmA liquidâ€crystal display driven by a twoâ€direction electric field. Journal of the Society for Information Display, 2008, 16, 675-681.	0.8	11
157	Optically reconfigurable patterning for control of the propagation characteristics of a planar waveguide. Applied Physics Letters, 2008, 93, 143506.	1.5	2
158	Liquid Crystal Alignment on a Chiral Surface: Interfacial Interaction with Sheared DNA Films. Langmuir, 2008, 24, 10390-10394.	1.6	42
159	Symmetric liquid crystal dimers containing hydrazide groups: parityâ€dependent smectic structure, hydrogen bonding and substitution effect. Liquid Crystals, 2008, 35, 967-974.	0.9	23
160	Physical Polymerization and Liquid Crystallization of RNA Oligomers. Journal of the American Chemical Society, 2008, 130, 12864-12865.	6.6	65
161	Phase separation and liquid crystallization of complementary sequences in mixtures of nanoDNA oligomers. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1111-1117.	3.3	80
162	Liquid crystal ordering of DNA and RNA oligomers with partially overlapping sequences. Journal of Physics Condensed Matter, 2008, 20, 494214.	0.7	34

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163	Method for characterizing self-assembled monolayers as antirelaxation wall coatings for alkali vapor cells. Journal of Applied Physics, 2008, 104, .	1.1	57
164	Organization of liquid crystals on submicron scale topographic patterns with fourfold symmetry prepared by thiolene photopolymerization-based nanoimprint lithography. Journal of Applied Physics, 2008, 103, .	1.1	25
165	HoughetÂal.Reply:. Physical Review Letters, 2008, 101, .	2.9	7
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