Noel A Clark

List of Publications by Year
in descending order

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497	27,130	6254 80	9103 144
papers	citations	h-index	g-index

516	516	516	9677
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Submicrosecond bistable electroâ€optic switching in liquid crystals. Applied Physics Letters, 1980, 36, 899-901.	3.3	2,571
2	Spontaneous Formation of Macroscopic Chiral Domains in a Fluid Smectic Phase of Achiral Molecules. Science, 1997, 278, 1924-1927.	12.6	1,176
3	"Chevron" Local Layer Structure in Surface-Stabilized Ferroelectric Smectic-CCells. Physical Review Letters, 1987, 59, 2658-2661.	7.8	504
4	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.	7.1	431
5	Steric Interactions in a Model Multimembrane System: A Synchrotron X-Ray Study. Physical Review Letters, 1986, 57, 2718-2721.	7.8	403
6	End-to-End Stacking and Liquid Crystal Condensation of 6â€“ to 20â€“Base Pair DNA Duplexes. Science, 2007, 318, 1276-1279.	12.6	370
7	Light-Scattering Study of Two-Dimensional Molecular-Orientation Fluctuations in a Freely Suspended Ferroelectric Liquid-Crystal Film. Physical Review Letters, 1978, 40, 773-776.	7.8	337
8	A Ferroelectric Liquid Crystal Conglomerate Composed of Racemic Molecules. Science, 2000, 288, 2181-2184.	12.6	328
9	Single colloidal crystals. Nature, 1979, 281, 57-60.	27.8	316
10	Polarization-Modulated Smectic Liquid Crystal Phases. Science, 2003, 301, 1204-1211.	12.6	296
11	Helical Nanofilament Phases. Science, 2009, 325, 456-460.	12.6	291
12	Polarized Raman scattering studies of orientational order in uniaxial liquid crystalline phases. Journal of Chemical Physics, 1977, 66, 4635-4661.	3.0	270
13	Three-dimensional structure and multistable optical switching of triple-twisted particle-like excitations in anisotropic fluids. Nature Materials, 2010, 9, 139-145.	27.5	270
14	Measurement of the Rotational Diffusion Coefficient of Lysozyme by Depolarized Light Scattering: Configuration of Lysozyme in Solution. Journal of Chemical Physics, 1971, 54, 5158-5164.	3.0	268
15	Shear-Induced Melting. Physical Review Letters, 1981, 46, 123-126.	7.8	263
16	Chiral Isotropic Liquids from Achiral Molecules. Science, 2009, 325, 452-456.	12.6	250
17	Polarized infrared spectroscopy of oriented purple membrane. Biophysical Journal, 1979, 25, 473-487.	0.5	245
18	Electro-optic Behavior of Liquid-Crystal-Filled Silica Opal Photonic Crystals: Effect of Liquid-Crystal Alignment. Physical Review Letters, 2001, 86, 4052-4055.	7.8	237

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19	Ferroelectric Liquid Crystal Electro-Optics Using the Surface Stabilized Structure. Molecular Crystals and Liquid Crystals, 1983, 94, 213-233.	0.8	224
20	Phase behavior of the liquid crystal 8CB in a silica aerogel. Physical Review Letters, 1992, 69, 788-791.	7.8	214
21	Twist-bend heliconical chiral nematic liquid crystal phase of an achiral rigid bent-core mesogen. Physical Review E, 2014, 89, 022506.	2.1	212
22	Structures and responses of ferroelectric liquid crystals in the surface-stabilized geometry. Ferroelectrics, 1984, 59, 69-116.	0.6	202
23	Smectic-Câ€˜â€˜chevron,â€™â€™ a planar liquid-crystal defect: Implications for the surface-stabilized ferroelectric liquid-crystal geometry. Physical Review A, 1988, 37, 1053-1056.	2.5	202
24	Lipid Tubule Self-Assembly: Length Dependence on Cooling Rate Through a First-Order Phase Transition. Science, 1995, 267, 1635-1638.	12.6	199
25	Nucleation and Growth of Colloidal Crystals. Physical Review Letters, 1986, 57, 1733-1736.	7.8	193
26	Laser-Induced Freezing. Physical Review Letters, 1985, 55, 833-836.	7.8	192
27	Structure of theLÎ²phases in a hydrated phosphatidylcholine multimembrane. Physical Review Letters, 1988, 60, 813-816.	7.8	191
28	Field-Induced First-Order Orientation Transitions in Ferroelectric Liquid Crystals. Physical Review Letters, 1983, 51, 471-474.	7.8	188
29	Universality and Scaling in the Disordering of a Smectic Liquid Crystal. Science, 2001, 294, 1074-1079.	12.6	187
30	Strainâ€induced instability of monodomain smectic A and cholesteric liquid crystals. Applied Physics Letters, 1973, 22, 493-494.	3.3	177
31	Surface-stabilized ferroelectric liquid crystal electro-optics: New multistate structures and devices. Ferroelectrics, 1984, 59, 25-67.	0.6	175
32	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.	7.1	174
33	Observation of the Coupling of Concentration Fluctuations to Steady-State Shear Flow. Physical Review Letters, 1980, 44, 1005-1008.	7.8	168
34	Neutron scattering from charge stabilized suspensions undergoing shear. Journal of Chemical Physics, 1986, 84, 2344-2349.	3.0	165
35	Freely Suspended Ferroelectric Liquid-Crystal Films: Absolute Measurements of Polarization, Elastic Constants, and Viscosities. Physical Review Letters, 1979, 42, 1220-1223.	7.8	163
36	Macroscopic Orientation Patterns in Smectic-CFilms. Physical Review Letters, 1980, 45, 1193-1196.	7.8	161

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37	A Study of Brownian Motion Using Light Scattering. American Journal of Physics, 1970, 38, 575-585.	0.7	157
38	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.	7.8	157
39	Shear-induced partial translational ordering of a colloidal solid. Physical Review A, 1984, 30, 906-918.	2.5	154
40	Sheared colloidal suspensions. Physica A: Statistical Mechanics and Its Applications, 1983, 118, 221-249.	2.6	153
41	Surface-induced lamellar orientation of multilayer membrane arrays. Theoretical analysis and a new method with application to purple membrane fragments. Biophysical Journal, 1980, 31, 65-96.	0.5	151
42	Xâ€ray structural studies of freely suspended ordered hydrated DMPC multimembrane films. Journal of Chemical Physics, 1990, 92, 4519-4529.	3.0	151
43	The parabolic focal conic : a new smectic a defect. Journal De Physique, 1977, 38, 1105-1115.	1.8	149
44	Alignment of Liquid Crystals with Patterned Isotropic Surfaces. Science, 2001, 291, 2576-2580.	12.6	143
45	Spontaneous Ferroelectric Order in a Bent-Core Smectic Liquid Crystal of Fluid Orthorhombic Layers. Science, 2011, 332, 72-77.	12.6	141
46	Dynamic Light Scattering Study of Nematic and Smectic-ALiquid Crystal Ordering in Silica Aerogel. Physical Review Letters, 1995, 74, 2740-2743.	7.8	134
47	Design and synthesis of a new ferroelectric liquid crystal family. Liquid crystals containing a nonracemic 2-alkoxy-1-propoxy unit. Journal of the American Chemical Society, 1986, 108, 5210-5221.	13.7	132
48	Faster electro-optical response characteristics of a carbon-nanotube-nematic suspension. Applied Physics Letters, 2007, 90, 033510.	3.3	131
49	GENERATION OF ACOUSTIC SIGNALS IN LIQUIDS BY RUBY LASERâ€INDUCED THERMAL STRESS TRANSIENTS. Applied Physics Letters, 1964, 4, 95-97.	3.3	130
50	Raman Scattering from a Nematic Liquid Crystal: Orientational Statistics. Physical Review Letters, 1973, 31, 1552-1556.	7.8	130
51	Surface memory effects in liquid crystals: Influence of surface composition. Physical Review Letters, 1985, 55, 292-295.	7.8	128
52	The case of thresholdless antiferroelectricity: polarization-stabilized twisted SmC* liquid crystals give V-shaped electro-optic response. Journal of Materials Chemistry, 1999, 9, 1257-1261.	6.7	125
53	Photocontrolled nanophase segregation in a liquid-crystal solvent. Nature, 1999, 398, 54-57.	27.8	118
54	Effects of Monomer Structure on Their Organization and Polymerization in a Smectic Liquid Crystal. Science, 1997, 275, 57-59.	12.6	114

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55	Electro-Optic Switching by Helicene Liquid Crystals. Chemistry of Materials, 2002, 14, 773-776.	6.7	111
56	Athermal photofluidization of glasses. Nature Communications, 2013, 4, 1521.	12.8	111
57	X-ray scattering study of smectic ordering in a silica aerogel. Physical Review Letters, 1993, 71, 3505-3508.	7.8	108
58	Anomalous amide I infrared absorption of purple membrane. Science, 1979, 204, 311-312.	12.6	106
59	High strain actuation liquid crystal elastomers via modulation of mesophase structure. Soft Matter, 2017, 13, 7537-7547.	2.7	106
60	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.	2.1	106
61	Synthesis of Î³-graphyne using dynamic covalent chemistry. , 2022, 1, 449-454.		106
62	Transfer of Biologically Derived Nanometer-Scale Patterns to Smooth Substrates. Science, 1992, 257, 642-644.	12.6	105
63	Electrooptic response during switching of a ferroelectric liquid crystal cell with uniform director orientation. Ferroelectrics, 1987, 73, 305-314.	0.6	102
64	Melting in Two-Dimensional Lennard-Jones Systems: Observation of a Metastable Hexatic Phase. Physical Review Letters, 1995, 74, 4019-4022.	7.8	102
65	Stroboscopic microscopy of fast electroâ€optic switching in ferroelectric smectic C liquid crystals. Applied Physics Letters, 1982, 41, 39-41.	3.3	100
66	Director and layer structure of SSFLC cells. Ferroelectrics, 1988, 85, 79-97.	0.6	99
67	Spontaneous liquid crystal and ferromagnetic ordering of colloidal magnetic nanoplates. Nature Communications, 2016, 7, 10394.	12.8	94
68	Brillouin Scattering from Smectic Liquid Crystals. Physical Review Letters, 1973, 30, 639-641.	7.8	92
69	Electrostatics and the electro-optic behaviour of chiral smectics C: 'block' polarization screening of applied voltage and 'V-shaped' switching. Liquid Crystals, 2000, 27, 985-990.	2.2	92
70	Electro-optic characteristics of de Vries tilted smectic liquid crystals: Analog behavior in the smectic A* and smectic C* phases. Applied Physics Letters, 2002, 80, 4097-4099.	3.3	92
71	Reconfigurable LC Elastomers: Using a Thermally Programmable Monodomain To Access Two-Way Free-Standing Multiple Shape Memory Polymers. Macromolecules, 2018, 51, 5812-5819.	4.8	92
72	Formation and Surface Modification of Nanopatterned Thiolâ€ene Substrates using Step and Flash Imprint Lithography. Advanced Materials, 2008, 20, 3308-3313.	21.0	91

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73	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.	7.1	91
74	A Spectroscopic Study of Rhodopsin Alpha-Helix Orientation. Biophysical Journal, 1980, 31, 53-64.	0.5	90
75	Lattice dynamics of colloidal crystals. Physical Review A, 1982, 26, 2869-2881.	2.5	90
76	Phase behavior of bent-core molecules. Physical Review E, 2003, 67, 011703.	2.1	89
77	Temperature behavior of ferroelectric liquid-crystal thin films: A classicalXYsystem. Physical Review A, 1980, 21, 140-147.	2.5	87
78	Multidetector Scattering as a Probe of Local Structure in Disordered Phases. Physical Review Letters, 1983, 50, 1459-1462.	7.8	87
79	Inclusion Compound Based Approach to Arrays of Artificial Dipolar Molecular Rotors. A Surface Inclusion. Journal of the American Chemical Society, 2012, 134, 10122-10131.	13.7	84
80	Smectic A and C materials with novel director tilt and layer thickness behaviour. Liquid Crystals, 1999, 26, 789-794.	2.2	83
81	Nanometer molecular lithography. Applied Physics Letters, 1986, 48, 676-678.	3.3	81
82	Light-scattering measurement of the nematic correlation length in a liquid crystal with quenched disorder. Physical Review E, 1998, 57, 2996-3006.	2.1	81
83	Design and synthesis of new ferroelectric liquid crystals. 14. An approach to the stereocontrolled synthesis of polar organic thin films for nonlinear optical applications. Journal of the American Chemical Society, 1991, 113, 5471-5474.	13.7	80
84	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.	7.1	80
85	Synchrotron X-Ray Study of the Orientational OrderingD2â^'D1Structural Phase Transition of Freely Suspended Discotic Strands in Triphenylene Hexa-n-dodecanoate. Physical Review Letters, 1984, 53, 1172-1175.	7.8	79
86	X-ray Scattering Studies of Aligned, Stacked Surfactant Membranes. Science, 1988, 242, 1406-1409.	12.6	78
87	Detecting Molecular Chirality by Scanning Tunneling Microscopy. Accounts of Chemical Research, 1996, 29, 591-597.	15.6	78
88	Design and synthesis of new ferroelectric liquid crystals. 5. Properties of some chiral fluorinated FLCs: a direct connection between macroscopic properties and absolute configuration in a fluid phase. Journal of the American Chemical Society, 1988, 110, 8686-8691.	13.7	76
89	The field induced stripe texture in surface stabilized ferroelectric liquid crystal cells. Ferroelectrics, 1991, 121, 127-136.	0.6	76
90	Simultaneous Observation of Electric Field Coupling to Longitudinal and Transverse Ferroelectricity in a Chiral Liquid Crystal. Physical Review Letters, 1996, 77, 2237-2240.	7.8	76

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91	Self-Assembly in Surfactant Oligomers:â€‰ A Coarse-Grained Description through Molecular Dynamics Simulations. Langmuir, 2002, 18, 1908-1918.	3.5	75
92	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.	13.7	75
93	Surface electroclinic effect in chiral smectic-Aliquid crystals. Physical Review Letters, 1990, 64, 307-310.	7.8	72
94	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.	7.1	70
95	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.	7.1	69
96	Ferroelectric liquid crystals: The development of devices. Ferroelectrics, 1989, 94, 3-62.	0.6	68
97	X-Ray Study Of Freely Suspended Films Of A Multilamellar Lipid System. Molecular Crystals and Liquid Crystals, 1987, 144, 235-255.	0.8	66
98	Left- and right-handed helical tubule intermediates from a pure chiral phospholipid. Physical Review E, 1999, 59, 3040-3047.	2.1	66
99	An Approach to the Design of Ferroelectric Liquid Crystals with Large Second Order Electronic Nonlinear Optical Susceptibility. Molecular Crystals and Liquid Crystals, 1991, 198, 51-60.	0.7	65
100	Physical Polymerization and Liquid Crystallization of RNA Oligomers. Journal of the American Chemical Society, 2008, 130, 12864-12865.	13.7	65
101	Preparation of large monodomain phospholipid bilayer smectic liquid crystals.. Proceedings of the National Academy of Sciences of the United States of America, 1975, 72, 840-843.	7.1	64
102	Design and synthesis of new ferroelectric liquid crystals. 2. Liquid crystals containing a nonracemic 2,3-epoxy alcohol unit. Journal of the American Chemical Society, 1986, 108, 7424-7425.	13.7	64
103	Observation of a Chiral-Symmetry-Breaking Twist-Bend Instability in Achiral Freely Suspended Liquid-Crystal Films. Physical Review Letters, 1994, 73, 2332-2335.	7.8	63
104	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
105	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.	7.1	62
106	Thermotropic liquid crystals from biomacromolecules. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18596-18600.	7.1	61
107	Liquid structure under shear: Comparison between computer simulations and colloidal suspensions. Journal of Chemical Physics, 1983, 79, 4448-4458.	3.0	60
108	Inelastic light scattering from density fluctuations in dilute gases. The kinetic-hydrodynamic transition in a monatomic gas. Physical Review A, 1975, 12, 232-244.	2.5	59

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109	Director orientation in chevron surface-stabilized ferroelectric liquid crystal cells. Verification of orientational binding at the chevron interface using visible polarized light transmission spectroscopy. Liquid Crystals, 1990, 7, 753-785.	2.2	59
110	Melting and Liquid Structure in two Dimensions. Advances in Chemical Physics, 2007, , 543-709.	0.3	59
111	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.	3.5	59
112	Intense Rubyâ€Laserâ€Induced Acoustic Impulses in Liquids. Journal of the Acoustical Society of America, 1966, 40, 1462-1466.	1.1	58
113	Director reorientation dynamics in chevron ferroelectric liquid crystal cells. Liquid Crystals, 1990, 7, 787-796.	2.2	58
114	The measurement of secondâ€harmonic generation in novel ferroelectric liquid crystal materials. Journal of Applied Physics, 1991, 70, 3426-3430.	2.5	58
115	Phase behaviour and electro-optic characteristics of a polymer stabilized ferroelectric liquid crystal. Liquid Crystals, 1995, 19, 719-727.	2.2	58
116	Dynamics and Shear Orientation Behavior of a Main-Chain Thermotropic Liquid Crystalline Polymer. Macromolecules, 1999, 32, 5581-5593.	4.8	57
117	Structure and dynamics of ferroelectric liquid crystal cells exhibiting thresholdless switching. Physical Review E, 2002, 65, 021708.	2.1	57
118	The first bent-core mesogens exhibiting a dimorphism B 7â€“SmCP A. Journal of Materials Chemistry, 2004, 14, 2492.	6.7	57
119	Alignment of liquid crystals by topographically patterned polymer films prepared by nanoimprint lithography. Applied Physics Letters, 2007, 90, 163510.	3.3	57
120	Method for characterizing self-assembled monolayers as antirelaxation wall coatings for alkali vapor cells. Journal of Applied Physics, 2008, 104, .	2.5	57
121	STATIC AND DYNAMIC BEHAVIOR NEAR THE ORDER DISORDER TRANSITION OF NEMATIC LIQUID CRYSTALS. Journal De Physique Colloque, 1972, 33, C1-69-C1-75.	0.2	57
122	Main-Chain Ferroelectric Liquid Crystal Oligomers by Acyclic Diene Metathesis Polymerization1. Journal of the American Chemical Society, 1996, 118, 2740-2741.	13.7	56
123	Orientational bias of carbonyl groups in the chiral smectic C phase. Ferroelectrics, 1996, 180, 213-225.	0.6	56
124	Polymerization Conditions and Electrooptic Properties of Polymer-Stabilized Ferroelectric Liquid Crystals. Chemistry of Materials, 1998, 10, 2378-2388.	6.7	56
125	Self-assembled monolayers for liquid crystal alignment: simple preparation on glass using alkyltrialkoxysilanes. Liquid Crystals, 2004, 31, 481-489.	2.2	56
126	Layer-Scale Optical Chirality of Liquid-Crystalline Phases. Physical Review Letters, 2005, 95, 107802.	7.8	56

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127	Critical Behavior near a Vanishing Miscibility Gap. Physical Review Letters, 1985, 54, 49-52.	7.8	55
128	Direct observation of the Brownian motion of a liquid-crystal topological defect. Physical Review Letters, 1992, 68, 804-807.	7.8	55
129	Electric-Field-Induced Chirality Flipping in Smectic Liquid Crystals: The Role of Anisotropic Viscosity. Physical Review Letters, 2006, 96, 067802.	7.8	54
130	Freely Suspended Strands of Tilted Columnar Liquid-Crystal Phases: One-Dimensional Nematics with Orientational Jumps. Physical Review Letters, 1982, 48, 1407-1410.	7.8	53
131	Design and synthesis of ferroelectric liquid crystals. 15.¹FLC materials for nonlinear optics applications. Ferroelectrics, 1991, 121, 247-257.	0.6	53
132	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.	7.1	53
133	Surface Tension Obtained from Various Smectic Free-Standing Films:â€‰ The Molecular Origin of Surface Tension. Langmuir, 1998, 14, 4330-4341.	3.5	51
134	Nanoconfinement of guest materials by helical nanofilament networks of bent-core mesogens. Soft Matter, 2013, 9, 462-471.	2.7	51
135	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, .	7.1	51
136	Determination of the colloidal crystal nucleation rate density. Phase Transitions, 1990, 21, 139-155.	1.3	49
137	Effect of microstructure on magnetic properties and anisotropy distributions in Co/Pd thin films and nanostructures. Physical Review B, 2009, 80, .	3.2	49
138	Liquid Crystal Ordering and Isotropic Gelation in Solutions of Four-Base-Long DNA Oligomers. ACS Nano, 2016, 10, 8508-8516.	14.6	48
139	X-ray diffraction and electron microscope study of phase separation in rod outer segment photoreceptor membrane multilayers. Biophysical Journal, 1982, 39, 241-251.	0.5	47
140	Surface orientation transitions in surface stabilized ferroelectric liquid crystal structures. Applied Physics Letters, 1988, 53, 2397-2399.	3.3	47
141	Near--Atomic Resolution Imaging of Ferroelectric Liquid Crystal Molecules on Graphite by STM. Science, 1995, 267, 1144-1147.	12.6	47
142	Design and synthesis of new ferroelectric liquid crystals. 9. An approach to creation of organic polymer thin films with controlled, stable polar orientation of functional groups. Journal of the American Chemical Society, 1989, 111, 8273-8274.	13.7	46
143	Topographic-pattern-induced homeotropic alignment of liquid crystals. Physical Review E, 2009, 79, 041701.	2.1	46
144	Crossover between 2D and 3D Fluid Dynamics in the Diffusion of Islands in Ultrathin Freely Suspended Smectic Films. Physical Review Letters, 2010, 105, 268304.	7.8	46

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145	A Modulated Helical Nanofilament Phase. Angewandte Chemie - International Edition, 2013, 52, 5254-5257.	13.8	45
146	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.	8.0	45
147	Light Scattering by Deformation of the Plane Texture of Smectic and Cholesteric Liquid Crystals. Physical Review Letters, 1973, 30, 3-6.	7.8	44
148	Direct measurement of orientation correlations in a two-dimensional liquid-crystal system. Physical Review A, 1988, 38, 1573-1589.	2.5	44
149	Dynamic Polarized Infrared Spectroscopy of Electric Field-Induced Molecular Reorientation in a Chiral Smectic-ALiquid Crystal. Physical Review Letters, 1995, 75, 2344-2347.	7.8	44
150	Ferroelectric Liquid Crystals for Nonlinear Optics:Â Orientation of the Disperse Red 1 Chromophore along the Ferroelectric Liquid Crystal Polar Axisâ€. Journal of the American Chemical Society, 1996, 118, 1211-1212.	13.7	44
151	Anticlinic Smectic-CSurfaces on Smectic-AFreely Suspended Liquid-Crystal Films. Physical Review Letters, 1999, 82, 2508-2511.	7.8	44
152	Isodesmic self-assembly in lyotropic chromonic systems. Liquid Crystals, 2002, 29, 619-626.	2.2	44
153	Large electroclinic effect in new liquid crystal material^a. Ferroelectrics, 1991, 121, 143-146.	0.6	43
154	From The Cover: Giant-block twist grain boundary smectic phases. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14191-14196.	7.1	43
155	Biomolecular/solidâ€state nanoheterostructures. Applied Physics Letters, 1990, 56, 692-694.	3.3	42
156	Liquid Crystal Alignment on a Chiral Surface: Interfacial Interaction with Sheared DNA Films. Langmuir, 2008, 24, 10390-10394.	3.5	42
157	Orientation of a Helical Nanofilament (B4) Liquidâ€Crystal Phase: Topographic Control of Confinement, Shear Flow, and Temperature Gradients. Advanced Materials, 2011, 23, 1962-1967.	21.0	42
158	Probing and Controlling Liquid Crystal Helical Nanofilaments. Nano Letters, 2015, 15, 3420-3424.	9.1	42
159	Abiotic ligation of DNA oligomers templated by their liquid crystal ordering. Nature Communications, 2015, 6, 6424.	12.8	42
160	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.	2.1	42
161	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.	7.1	42
162	Electroâ€optic switching using total internal reflection by a ferroelectric liquid crystal. Applied Physics Letters, 1989, 54, 1394-1396.	3.3	41

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163	Ionic transport effects in SSFLC cells. Ferroelectrics, 1991, 121, 147-158.	0.6	41
164	Dynamics of Collective and Molecular Modes of a Ferroelectric Liquid Crystal in Confined Geometry Using Dielectric Spectroscopy. Physical Review Letters, 1997, 79, 249-252.	7.8	41
165	Nanophase segregation in binary mixtures of a bent-core and a rodlike liquid-crystal molecule. Physical Review E, 2010, 81, 011704.	2.1	41
166	Two-Dimensional Microrheology of Freely Suspended Liquid Crystal Films. Physical Review Letters, 2011, 107, 268301.	7.8	41
167	Ferromagnetic ferrofluids. Nature, 2013, 504, 229-230.	27.8	41
168	Mean field theory of liquid crystalline phases of disc-shaped molecules. Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 85, 359-362.	2.1	40
169	Effect of the transverse dipole moment on the smectic-Aâ€“smectic-C(orâ€“chiral-smectic-C) transition. Physical Review A, 1989, 40, 6759-6762.	2.5	40
170	VI. Applications of S-layers. FEMS Microbiology Reviews, 1997, 20, 151-175.	8.6	40
171	An Electricâ€Fieldâ€Responsive Discotic Liquidâ€Crystalline Hexaâ€periâ€Hexabenzocoronene/Oligothiophene Hybrid. Advanced Materials, 2014, 26, 2066-2071.	21.0	40
172	Macroscopic theory for the flow behavior of smectic-Cand smectic-C*liquid crystals. Physical Review E, 1995, 51, 4509-4525.	2.1	39
173	Polarization splay as the origin of modulation in theB1andB7smectic phases of bent-core molecules. Physical Review E, 2008, 77, 021703.	2.1	39
174	Interface structure of the dark conglomerate liquid crystal phase. Soft Matter, 2011, 7, 1879-1883.	2.7	39
175	Solventâ€free Liquid Crystals and Liquids from DNA. Chemistry - A European Journal, 2015, 21, 4898-4903.	3.3	39
176	Controlling the volatility of the written optical state in electrochromic DNA liquid crystals. Nature Communications, 2016, 7, 11476.	12.8	39
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