

Noel A Clark

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2060586/publications.pdf>

Version: 2024-02-01

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	Submicrosecond bistable electro-optic switching in liquid crystals. <i>Applied Physics Letters</i> , 1980, 36, 899-901.	1.5	2,571
2	Spontaneous Formation of Macroscopic Chiral Domains in a Fluid Smectic Phase of Achiral Molecules. <i>Science</i> , 1997, 278, 1924-1927.	6.0	1,176
3	"Chevron" Local Layer Structure in Surface-Stabilized Ferroelectric Smectic-CCells. <i>Physical Review Letters</i> , 1987, 59, 2658-2661.	2.9	504
4	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> , 2013, 110, 15931-15936.	3.3	431
5	Steric Interactions in a Model Multimembrane System: A Synchrotron X-Ray Study. <i>Physical Review Letters</i> , 1986, 57, 2718-2721.	2.9	403
6	End-to-End Stacking and Liquid Crystal Condensation of 6â€ to 20â€ Base Pair DNA Duplexes. <i>Science</i> , 2007, 318, 1276-1279.	6.0	370
7	Light-Scattering Study of Two-Dimensional Molecular-Orientation Fluctuations in a Freely Suspended Ferroelectric Liquid-Crystal Film. <i>Physical Review Letters</i> , 1978, 40, 773-776.	2.9	337
8	A Ferroelectric Liquid Crystal Conglomerate Composed of Racemic Molecules. <i>Science</i> , 2000, 288, 2181-2184.	6.0	328
9	Single colloidal crystals. <i>Nature</i> , 1979, 281, 57-60.	13.7	316
10	Polarization-Modulated Smectic Liquid Crystal Phases. <i>Science</i> , 2003, 301, 1204-1211.	6.0	296
11	Helical Nanofilament Phases. <i>Science</i> , 2009, 325, 456-460.	6.0	291
12	Polarized Raman scattering studies of orientational order in uniaxial liquid crystalline phases. <i>Journal of Chemical Physics</i> , 1977, 66, 4635-4661.	1.2	270
13	Three-dimensional structure and multistable optical switching of triple-twisted particle-like excitations in anisotropic fluids. <i>Nature Materials</i> , 2010, 9, 139-145.	13.3	270
14	Measurement of the Rotational Diffusion Coefficient of Lysozyme by Depolarized Light Scattering: Configuration of Lysozyme in Solution. <i>Journal of Chemical Physics</i> , 1971, 54, 5158-5164.	1.2	268
15	Shear-Induced Melting. <i>Physical Review Letters</i> , 1981, 46, 123-126.	2.9	263
16	Chiral Isotropic Liquids from Achiral Molecules. <i>Science</i> , 2009, 325, 452-456.	6.0	250
17	Polarized infrared spectroscopy of oriented purple membrane. <i>Biophysical Journal</i> , 1979, 25, 473-487.	0.2	245
18	Electro-optic Behavior of Liquid-Crystal-Filled Silica Opal Photonic Crystals: Effect of Liquid-Crystal Alignment. <i>Physical Review Letters</i> , 2001, 86, 4052-4055.	2.9	237

#	ARTICLE	IF	CITATIONS
19	Ferroelectric Liquid Crystal Electro-Optics Using the Surface Stabilized Structure. <i>Molecular Crystals and Liquid Crystals</i> , 1983, 94, 213-233.	0.9	224
20	Phase behavior of the liquid crystal 8CB in a silica aerogel. <i>Physical Review Letters</i> , 1992, 69, 788-791.	2.9	214
21	Twist-bend heliconical chiral nematic liquid crystal phase of an achiral rigid bent-core mesogen. <i>Physical Review E</i> , 2014, 89, 022506.	0.8	212
22	Structures and responses of ferroelectric liquid crystals in the surface-stabilized geometry. <i>Ferroelectrics</i> , 1984, 59, 69-116.	0.3	202
23	Smectic-C \sim chevron, a planar liquid-crystal defect: Implications for the surface-stabilized ferroelectric liquid-crystal geometry. <i>Physical Review A</i> , 1988, 37, 1053-1056.	1.0	202
24	Lipid Tubule Self-Assembly: Length Dependence on Cooling Rate Through a First-Order Phase Transition. <i>Science</i> , 1995, 267, 1635-1638.	6.0	199
25	Nucleation and Growth of Colloidal Crystals. <i>Physical Review Letters</i> , 1986, 57, 1733-1736.	2.9	193
26	Laser-Induced Freezing. <i>Physical Review Letters</i> , 1985, 55, 833-836.	2.9	192
27	Structure of the L $\hat{1}$ phases in a hydrated phosphatidylcholine multimembrane. <i>Physical Review Letters</i> , 1988, 60, 813-816.	2.9	191
28	Field-Induced First-Order Orientation Transitions in Ferroelectric Liquid Crystals. <i>Physical Review Letters</i> , 1983, 51, 471-474.	2.9	188
29	Universality and Scaling in the Disordering of a Smectic Liquid Crystal. <i>Science</i> , 2001, 294, 1074-1079.	6.0	187
30	Strain-induced instability of monodomain smectic A and cholesteric liquid crystals. <i>Applied Physics Letters</i> , 1973, 22, 493-494.	1.5	177
31	Surface-stabilized ferroelectric liquid crystal electro-optics: New multistate structures and devices. <i>Ferroelectrics</i> , 1984, 59, 25-67.	0.3	175
32	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> , 2020, 117, 14021-14031.	3.3	174
33	Observation of the Coupling of Concentration Fluctuations to Steady-State Shear Flow. <i>Physical Review Letters</i> , 1980, 44, 1005-1008.	2.9	168
34	Neutron scattering from charge stabilized suspensions undergoing shear. <i>Journal of Chemical Physics</i> , 1986, 84, 2344-2349.	1.2	165
35	Freely Suspended Ferroelectric Liquid-Crystal Films: Absolute Measurements of Polarization, Elastic Constants, and Viscosities. <i>Physical Review Letters</i> , 1979, 42, 1220-1223.	2.9	163
36	Macroscopic Orientation Patterns in Smectic-C Films. <i>Physical Review Letters</i> , 1980, 45, 1193-1196.	2.9	161

#	ARTICLE	IF	CITATIONS
37	A Study of Brownian Motion Using Light Scattering. American Journal of Physics, 1970, 38, 575-585.	0.3	157
38	Resonant Carbon K -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
39	Shear-induced partial translational ordering of a colloidal solid. Physical Review A, 1984, 30, 906-918.	1.0	154
40	Sheared colloidal suspensions. Physica A: Statistical Mechanics and Its Applications, 1983, 118, 221-249.	1.2	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.	0.2	151
42	X-ray structural studies of freely suspended ordered hydrated DMPC multimembrane films. Journal of Chemical Physics, 1990, 92, 4519-4529.	1.2	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.	6.0	143
45	Spontaneous Ferroelectric Order in a Bent-Core Smectic Liquid Crystal of Fluid Orthorhombic Layers. Science, 2011, 332, 72-77.	6.0	141
46	Dynamic Light Scattering Study of Nematic and Smectic-Liquid Crystal Ordering in Silica Aerogel. Physical Review Letters, 1995, 74, 2740-2743.	2.9	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.	6.6	132
48	Faster electro-optical response characteristics of a carbon-nanotube-nematic suspension. Applied Physics Letters, 2007, 90, 033510.	1.5	131
49	GENERATION OF ACOUSTIC SIGNALS IN LIQUIDS BY RUBY LASER-INDUCED THERMAL STRESS TRANSIENTS. Applied Physics Letters, 1964, 4, 95-97.	1.5	130
50	Raman Scattering from a Nematic Liquid Crystal: Orientational Statistics. Physical Review Letters, 1973, 31, 1552-1556.	2.9	130
51	Surface memory effects in liquid crystals: Influence of surface composition. Physical Review Letters, 1985, 55, 292-295.	2.9	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.	13.7	118
54	Effects of Monomer Structure on Their Organization and Polymerization in a Smectic Liquid Crystal. Science, 1997, 275, 57-59.	6.0	114

#	ARTICLE	IF	CITATIONS
55	Electro-Optic Switching by Helicene Liquid Crystals. <i>Chemistry of Materials</i> , 2002, 14, 773-776.	3.2	111
56	Athermal photofluidization of glasses. <i>Nature Communications</i> , 2013, 4, 1521.	5.8	111
57	X-ray scattering study of smectic ordering in a silica aerogel. <i>Physical Review Letters</i> , 1993, 71, 3505-3508.	2.9	108
58	Anomalous amide I infrared absorption of purple membrane. <i>Science</i> , 1979, 204, 311-312.	6.0	106
59	High strain actuation liquid crystal elastomers via modulation of mesophase structure. <i>Soft Matter</i> , 2017, 13, 7537-7547.	1.2	106
60	Thiol-ene acrylate main-chain liquid-crystalline elastomers with tunable thermomechanical properties and actuation strain. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 157-168.	2.4	106
61	Synthesis of \hat{I}^3 -graphyne using dynamic covalent chemistry. , 2022, 1, 449-454.		106
62	Transfer of Biologically Derived Nanometer-Scale Patterns to Smooth Substrates. <i>Science</i> , 1992, 257, 642-644.	6.0	105
63	Electrooptic response during switching of a ferroelectric liquid crystal cell with uniform director orientation. <i>Ferroelectrics</i> , 1987, 73, 305-314.	0.3	102
64	Melting in Two-Dimensional Lennard-Jones Systems: Observation of a Metastable Hexatic Phase. <i>Physical Review Letters</i> , 1995, 74, 4019-4022.	2.9	102
65	Stroboscopic microscopy of fast electro-optic switching in ferroelectric smectic C liquid crystals. <i>Applied Physics Letters</i> , 1982, 41, 39-41.	1.5	100
66	Director and layer structure of SSFLC cells. <i>Ferroelectrics</i> , 1988, 85, 79-97.	0.3	99
67	Spontaneous liquid crystal and ferromagnetic ordering of colloidal magnetic nanoplates. <i>Nature Communications</i> , 2016, 7, 10394.	5.8	94
68	Brillouin Scattering from Smectic Liquid Crystals. <i>Physical Review Letters</i> , 1973, 30, 639-641.	2.9	92
69	Electrostatics and the electro-optic behaviour of chiral smectics C: 'block' polarization screening of applied voltage and 'V-shaped' switching. <i>Liquid Crystals</i> , 2000, 27, 985-990.	0.9	92
70	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> , 2002, 80, 4097-4099.	1.5	92
71	Reconfigurable LC Elastomers: Using a Thermally Programmable Monodomain To Access Two-Way Free-Standing Multiple Shape Memory Polymers. <i>Macromolecules</i> , 2018, 51, 5812-5819.	2.2	92
72	Formation and Surface Modification of Nanopatterned Thiol-ene Substrates using Step and Flash Imprint Lithography. <i>Advanced Materials</i> , 2008, 20, 3308-3313.	11.1	91

#	ARTICLE	IF	CITATIONS
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.	3.3	91
74	A Spectroscopic Study of Rhodopsin Alpha-Helix Orientation. Biophysical Journal, 1980, 31, 53-64.	0.2	90
75	Lattice dynamics of colloidal crystals. Physical Review A, 1982, 26, 2869-2881.	1.0	90
76	Phase behavior of bent-core molecules. Physical Review E, 2003, 67, 011703.	0.8	89
77	Temperature behavior of ferroelectric liquid-crystal thin films: A classicalXYsystem. Physical Review A, 1980, 21, 140-147.	1.0	87
78	Multidetector Scattering as a Probe of Local Structure in Disordered Phases. Physical Review Letters, 1983, 50, 1459-1462.	2.9	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.	6.6	84
80	Smectic A and C materials with novel director tilt and layer thickness behaviour. Liquid Crystals, 1999, 26, 789-794.	0.9	83
81	Nanometer molecular lithography. Applied Physics Letters, 1986, 48, 676-678.	1.5	81
82	Light-scattering measurement of the nematic correlation length in a liquid crystal with quenched disorder. Physical Review E, 1998, 57, 2996-3006.	0.8	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.	6.6	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.	3.3	80
85	Synchrotron X-Ray Study of the Orientational OrderingD2~D1Structural Phase Transition of Freely Suspended Discotic Strands in Triphenylene Hexa-n-dodecanoate. Physical Review Letters, 1984, 53, 1172-1175.	2.9	79
86	X-ray Scattering Studies of Aligned, Stacked Surfactant Membranes. Science, 1988, 242, 1406-1409.	6.0	78
87	Detecting Molecular Chirality by Scanning Tunneling Microscopy. Accounts of Chemical Research, 1996, 29, 591-597.	7.6	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.	6.6	76
89	The field induced stripe texture in surface stabilized ferroelectric liquid crystal cells. Ferroelectrics, 1991, 121, 127-136.	0.3	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.	2.9	76

#	ARTICLE	IF	CITATIONS
91	Self-Assembly in Surfactant Oligomers: A Coarse-Grained Description through Molecular Dynamics Simulations. <i>Langmuir</i> , 2002, 18, 1908-1918.	1.6	75
92	Chirality-Preserving Growth of Helical Filaments in the B4 Phase of Bent-Core Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 12656-12663.	6.6	75
93	Surface electroclinic effect in chiral smectic-A liquid crystals. <i>Physical Review Letters</i> , 1990, 64, 307-310.	2.9	72
94	Organization of the polarization splay modulated smectic liquid crystal phase by topographic confinement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21311-21315.	3.3	70
95	Liquid crystal self-assembly of random-sequence DNA oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1110-1115.	3.3	69
96	Ferroelectric liquid crystals: The development of devices. <i>Ferroelectrics</i> , 1989, 94, 3-62.	0.3	68
97	X-Ray Study Of Freely Suspended Films Of A Multilamellar Lipid System. <i>Molecular Crystals and Liquid Crystals</i> , 1987, 144, 235-255.	0.9	66
98	Left- and right-handed helical tubule intermediates from a pure chiral phospholipid. <i>Physical Review E</i> , 1999, 59, 3040-3047.	0.8	66
99	An Approach to the Design of Ferroelectric Liquid Crystals with Large Second Order Electronic Nonlinear Optical Susceptibility. <i>Molecular Crystals and Liquid Crystals</i> , 1991, 198, 51-60.	0.7	65
100	Physical Polymerization and Liquid Crystallization of RNA Oligomers. <i>Journal of the American Chemical Society</i> , 2008, 130, 12864-12865.	6.6	65
101	Preparation of large monodomain phospholipid bilayer smectic liquid crystals.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1975, 72, 840-843.	3.3	64
102	Design and synthesis of new ferroelectric liquid crystals. 2. Liquid crystals containing a nonracemic 2,3-epoxy alcohol unit. <i>Journal of the American Chemical Society</i> , 1986, 108, 7424-7425.	6.6	64
103	Observation of a Chiral-Symmetry-Breaking Twist-Bend Instability in Achiral Freely Suspended Liquid-Crystal Films. <i>Physical Review Letters</i> , 1994, 73, 2332-2335.	2.9	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. <i>Journal of Materials Chemistry</i> , 2010, 20, 7332.	6.7	63
105	Distinct differences in the nanoscale behaviors of the twist-bend liquid crystal phase of a flexible linear trimer and homologous dimer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10698-10704.	3.3	62
106	Thermotropic liquid crystals from biomacromolecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18596-18600.	3.3	61
107	Liquid structure under shear: Comparison between computer simulations and colloidal suspensions. <i>Journal of Chemical Physics</i> , 1983, 79, 4448-4458.	1.2	60
108	Inelastic light scattering from density fluctuations in dilute gases. The kinetic-hydrodynamic transition in a monatomic gas. <i>Physical Review A</i> , 1975, 12, 232-244.	1.0	59

#	ARTICLE	IF	CITATIONS
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. <i>Liquid Crystals</i> , 1990, 7, 753-785.	0.9	59
110	Melting and Liquid Structure in two Dimensions. <i>Advances in Chemical Physics</i> , 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. <i>Langmuir</i> , 2010, 26, 17482-17488.	1.6	59
112	Intense Ruby Laser-Induced Acoustic Impulses in Liquids. <i>Journal of the Acoustical Society of America</i> , 1966, 40, 1462-1466.	0.5	58
113	Director reorientation dynamics in chevron ferroelectric liquid crystal cells. <i>Liquid Crystals</i> , 1990, 7, 787-796.	0.9	58
114	The measurement of second-harmonic generation in novel ferroelectric liquid crystal materials. <i>Journal of Applied Physics</i> , 1991, 70, 3426-3430.	1.1	58
115	Phase behaviour and electro-optic characteristics of a polymer stabilized ferroelectric liquid crystal. <i>Liquid Crystals</i> , 1995, 19, 719-727.	0.9	58
116	Dynamics and Shear Orientation Behavior of a Main-Chain Thermotropic Liquid Crystalline Polymer. <i>Macromolecules</i> , 1999, 32, 5581-5593.	2.2	57
117	Structure and dynamics of ferroelectric liquid crystal cells exhibiting thresholdless switching. <i>Physical Review E</i> , 2002, 65, 021708.	0.8	57
118	The first bent-core mesogens exhibiting a dimorphism B \leftrightarrow SmCP A. <i>Journal of Materials Chemistry</i> , 2004, 14, 2492.	6.7	57
119	Alignment of liquid crystals by topographically patterned polymer films prepared by nanoimprint lithography. <i>Applied Physics Letters</i> , 2007, 90, 163510.	1.5	57
120	Method for characterizing self-assembled monolayers as antirelaxation wall coatings for alkali vapor cells. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	57
121	STATIC AND DYNAMIC BEHAVIOR NEAR THE ORDER DISORDER TRANSITION OF NEMATIC LIQUID CRYSTALS. <i>Journal De Physique Colloque</i> , 1972, 33, C1-69-C1-75.	0.2	57
122	Main-Chain Ferroelectric Liquid Crystal Oligomers by Acyclic Diene Metathesis Polymerization ¹ . <i>Journal of the American Chemical Society</i> , 1996, 118, 2740-2741.	6.6	56
123	Orientational bias of carbonyl groups in the chiral smectic C phase. <i>Ferroelectrics</i> , 1996, 180, 213-225.	0.3	56
124	Polymerization Conditions and Electrooptic Properties of Polymer-Stabilized Ferroelectric Liquid Crystals. <i>Chemistry of Materials</i> , 1998, 10, 2378-2388.	3.2	56
125	Self-assembled monolayers for liquid crystal alignment: simple preparation on glass using alkyltrialkoxysilanes. <i>Liquid Crystals</i> , 2004, 31, 481-489.	0.9	56
126	Layer-Scale Optical Chirality of Liquid-Crystalline Phases. <i>Physical Review Letters</i> , 2005, 95, 107802.	2.9	56

#	ARTICLE	IF	CITATIONS
127	Critical Behavior near a Vanishing Miscibility Gap. <i>Physical Review Letters</i> , 1985, 54, 49-52.	2.9	55
128	Direct observation of the Brownian motion of a liquid-crystal topological defect. <i>Physical Review Letters</i> , 1992, 68, 804-807.	2.9	55
129	Electric-Field-Induced Chirality Flipping in Smectic Liquid Crystals: The Role of Anisotropic Viscosity. <i>Physical Review Letters</i> , 2006, 96, 067802.	2.9	54
130	Freely Suspended Strands of Tilted Columnar Liquid-Crystal Phases: One-Dimensional Nematics with Orientational Jumps. <i>Physical Review Letters</i> , 1982, 48, 1407-1410.	2.9	53
131	Design and synthesis of ferroelectric liquid crystals. 15. ¹ FLC materials for nonlinear optics applications. <i>Ferroelectrics</i> , 1991, 121, 247-257.	0.3	53
132	Multistep hierarchical self-assembly of chiral nanopore arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14342-14347.	3.3	53
133	Surface Tension Obtained from Various Smectic Free-Standing Films: The Molecular Origin of Surface Tension. <i>Langmuir</i> , 1998, 14, 4330-4341.	1.6	51
134	Nanoconfinement of guest materials by helical nanofilament networks of bent-core mesogens. <i>Soft Matter</i> , 2013, 9, 462-471.	1.2	51
135	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> , 2021, 118, .	3.3	51
136	Determination of the colloidal crystal nucleation rate density. <i>Phase Transitions</i> , 1990, 21, 139-155.	0.6	49
137	Effect of microstructure on magnetic properties and anisotropy distributions in Co/Pd thin films and nanostructures. <i>Physical Review B</i> , 2009, 80, .	1.1	49
138	Liquid Crystal Ordering and Isotropic Gelation in Solutions of Four-Base-Long DNA Oligomers. <i>ACS Nano</i> , 2016, 10, 8508-8516.	7.3	48
139	X-ray diffraction and electron microscope study of phase separation in rod outer segment photoreceptor membrane multilayers. <i>Biophysical Journal</i> , 1982, 39, 241-251.	0.2	47
140	Surface orientation transitions in surface stabilized ferroelectric liquid crystal structures. <i>Applied Physics Letters</i> , 1988, 53, 2397-2399.	1.5	47
141	Near-Atomic Resolution Imaging of Ferroelectric Liquid Crystal Molecules on Graphite by STM. <i>Science</i> , 1995, 267, 1144-1147.	6.0	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. <i>Journal of the American Chemical Society</i> , 1989, 111, 8273-8274.	6.6	46
143	Topographic-pattern-induced homeotropic alignment of liquid crystals. <i>Physical Review E</i> , 2009, 79, 041701.	0.8	46
144	Crossover between 2D and 3D Fluid Dynamics in the Diffusion of Islands in Ultrathin Freely Suspended Smectic Films. <i>Physical Review Letters</i> , 2010, 105, 268304.	2.9	46

#	ARTICLE	IF	CITATIONS
145	A Modulated Helical Nanofilament Phase. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5254-5257.	7.2	45
146	Fabrication of Liquid Crystalline Polyurethane Networks with a Pendant Azobenzene Group to Access Thermal/Photoresponsive Shape-Memory Effects. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24947-24954.	4.0	45
147	Light Scattering by Deformation of the Plane Texture of Smectic and Cholesteric Liquid Crystals. <i>Physical Review Letters</i> , 1973, 30, 3-6.	2.9	44
148	Direct measurement of orientation correlations in a two-dimensional liquid-crystal system. <i>Physical Review A</i> , 1988, 38, 1573-1589.	1.0	44
149	Dynamic Polarized Infrared Spectroscopy of Electric Field-Induced Molecular Reorientation in a Chiral Smectic-ALiquid Crystal. <i>Physical Review Letters</i> , 1995, 75, 2344-2347.	2.9	44
150	Ferroelectric Liquid Crystals for Nonlinear Optics: Orientation of the Disperse Red 1 Chromophore along the Ferroelectric Liquid Crystal Polar Axis. <i>Journal of the American Chemical Society</i> , 1996, 118, 1211-1212.	6.6	44
151	Anticlinic Smectic-C Surfaces on Smectic-A Freely Suspended Liquid-Crystal Films. <i>Physical Review Letters</i> , 1999, 82, 2508-2511.	2.9	44
152	Isodesmic self-assembly in lyotropic chromonic systems. <i>Liquid Crystals</i> , 2002, 29, 619-626.	0.9	44
153	Large electroclinic effect in new liquid crystal material. <i>Ferroelectrics</i> , 1991, 121, 143-146.	0.3	43
154	From The Cover: Giant-block twist grain boundary smectic phases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14191-14196.	3.3	43
155	Biomolecular/solid-state nanoheterostructures. <i>Applied Physics Letters</i> , 1990, 56, 692-694.	1.5	42
156	Liquid Crystal Alignment on a Chiral Surface: Interfacial Interaction with Sheared DNA Films. <i>Langmuir</i> , 2008, 24, 10390-10394.	1.6	42
157	Orientation of a Helical Nanofilament (B4) Liquid-Crystal Phase: Topographic Control of Confinement, Shear Flow, and Temperature Gradients. <i>Advanced Materials</i> , 2011, 23, 1962-1967.	11.1	42
158	Probing and Controlling Liquid Crystal Helical Nanofilaments. <i>Nano Letters</i> , 2015, 15, 3420-3424.	4.5	42
159	Abiotic ligation of DNA oligomers templated by their liquid crystal ordering. <i>Nature Communications</i> , 2015, 6, 6424.	5.8	42
160	Molecular weight dependence of carrier mobility and recombination rate in neat P3HT films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 31-35.	2.4	42
161	Backbone-free duplex-stacked monomer nucleic acids exhibiting Watson-Crick selectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7658-E7664.	3.3	42
162	Electro-optic switching using total internal reflection by a ferroelectric liquid crystal. <i>Applied Physics Letters</i> , 1989, 54, 1394-1396.	1.5	41

#	ARTICLE	IF	CITATIONS
163	Ionic transport effects in SSFLC cells. <i>Ferroelectrics</i> , 1991, 121, 147-158.	0.3	41
164	Dynamics of Collective and Molecular Modes of a Ferroelectric Liquid Crystal in Confined Geometry Using Dielectric Spectroscopy. <i>Physical Review Letters</i> , 1997, 79, 249-252.	2.9	41
165	Nanophase segregation in binary mixtures of a bent-core and a rodlike liquid-crystal molecule. <i>Physical Review E</i> , 2010, 81, 011704.	0.8	41
166	Two-Dimensional Microrheology of Freely Suspended Liquid Crystal Films. <i>Physical Review Letters</i> , 2011, 107, 268301.	2.9	41
167	Ferromagnetic ferrofluids. <i>Nature</i> , 2013, 504, 229-230.	13.7	41
168	Mean field theory of liquid crystalline phases of disc-shaped molecules. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1981, 85, 359-362.	0.9	40
169	Effect of the transverse dipole moment on the smectic-A to smectic-C (or chiral-smectic-C) transition. <i>Physical Review A</i> , 1989, 40, 6759-6762.	1.0	40
170	VI. Applications of S-layers. <i>FEMS Microbiology Reviews</i> , 1997, 20, 151-175.	3.9	40
171	An Electric Field Responsive Discotic Liquid Crystalline Hexa-peri-hexabenzocoronene/Oligothiophene Hybrid. <i>Advanced Materials</i> , 2014, 26, 2066-2071.	11.1	40
172	Macroscopic theory for the flow behavior of smectic-C and smectic-C* liquid crystals. <i>Physical Review E</i> , 1995, 51, 4509-4525.	0.8	39
173	Polarization splay as the origin of modulation in the B ₁ and B ₇ smectic phases of bent-core molecules. <i>Physical Review E</i> , 2008, 77, 021703.	0.8	39
174	Interface structure of the dark conglomerate liquid crystal phase. <i>Soft Matter</i> , 2011, 7, 1879-1883.	1.2	39
175	Solvent-free Liquid Crystals and Liquids from DNA. <i>Chemistry - A European Journal</i> , 2015, 21, 4898-4903.	1.7	39
176	Controlling the volatility of the written optical state in electrochromic DNA liquid crystals. <i>Nature Communications</i> , 2016, 7, 11476.	5.8	39
177	Textures in hexatic films of nonchiral liquid crystals: Symmetry breaking and modulated phases. <i>Physical Review E</i> , 1994, 49, 3207-3224.	0.8	38
178	A bow-phase mesogen showing strong, robust analog electro-optics. <i>Journal of Materials Chemistry</i> , 2001, 11, 2743-2747.	6.7	38
179	Microscopic structure and dynamics of a partial bilayer smectic liquid crystal. <i>Physical Review E</i> , 2001, 64, 051703.	0.8	38
180	Structure of the B ₄ Liquid Crystal Phase near a Glass Surface. <i>ChemPhysChem</i> , 2012, 13, 155-159.	1.0	38

#	ARTICLE	IF	CITATIONS
181	Alignment of helical nanofilaments on the surfaces of various self-assembled monolayers. <i>Soft Matter</i> , 2013, 9, 6185.	1.2	38
182	Surface alignment of ferroelectric nematic liquid crystals. <i>Soft Matter</i> , 2021, 17, 8130-8139.	1.2	38
183	Solitary waves in ferroelectric liquid crystals. <i>Physical Review A</i> , 1986, 34, 3554-3557.	1.0	37
184	Highly Oriented Liquid Crystal Semiconductor for Organic Field-Effect Transistors. <i>ACS Central Science</i> , 2018, 4, 1495-1502.	5.3	37
185	Pretransitional mechanical effects in a smectic-A liquid crystal. <i>Physical Review A</i> , 1976, 14, 1551-1554.	1.0	36
186	Surface-stabilized ferroelectric liquid crystal electro-optic waveguide switch. <i>Applied Physics Letters</i> , 1990, 57, 1852-1854.	1.5	36
187	Effects of finite laser coherence in quasielastic multiple scattering. <i>Physical Review A</i> , 1991, 44, 5215-5223.	1.0	36
188	Electrooptical switching properties of uniform layer tilted surface stabilized ferroelectric liquid crystal devices. <i>Liquid Crystals</i> , 1987, 2, 707-716.	0.9	35
189	Charge Generation Measured for Fullerene-Helical Nanofilament Liquid Crystal Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4823-4830.	4.0	35
190	Nonenzymatic Polymerization into Long Linear RNA Templated by Liquid Crystal Self-Assembly. <i>ACS Nano</i> , 2018, 12, 9750-9762.	7.3	35
191	Analog simulation of melting in two dimensions. <i>Physical Review B</i> , 1990, 42, 988-991.	1.1	34
192	Ring-Pattern Dynamics in Smectic-C* and Smectic-CA* Freely Suspended Liquid Crystal Films. <i>Physical Review Letters</i> , 2000, 84, 5772-5775.	2.9	34
193	Liquid crystal ordering of DNA and RNA oligomers with partially overlapping sequences. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 494214.	0.7	34
194	Solvent-Free Liquid Crystals and Liquids Based on Genetically Engineered Supercharged Polypeptides with High Elasticity. <i>Advanced Materials</i> , 2015, 27, 2459-2465.	11.1	34
195	Ferroelectric behavior of orthogonal smectic phase made of bent-core molecules. <i>Physical Review E</i> , 2011, 84, 031706.	0.8	34
196	Elastic Resonance of a Liquid-Crystal Blue Phase. <i>Physical Review Letters</i> , 1984, 52, 57-60.	2.9	33
197	Characterization of the local structure of fluids by apertured cross-correlation functions. <i>Physical Review A</i> , 1985, 31, 3183-3193.	1.0	33
198	Synchrotron X-ray Scattering Study of Freely Suspended Discotic Strands. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 123, 205-216.	0.9	33

#	ARTICLE	IF	CITATIONS
199	Layer and director structure in surface stabilized ferroelectric liquid crystal cells with non-planar boundary conditions. <i>Liquid Crystals</i> , 1989, 6, 565-576.	0.9	33
200	X-ray observation of electroclinic layer constriction and rearrangement in a chiral smectic liquid crystal. <i>Applied Physics Letters</i> , 1995, 67, 362-364.	1.5	33
201	Topological Ferroelectric Bistability in a Polarization-Modulated Orthogonal Smectic Liquid Crystal. <i>Journal of the American Chemical Society</i> , 2012, 134, 9681-9687.	6.6	33
202	Diastereomeric liquid crystal domains at the mesoscale. <i>Nature Communications</i> , 2015, 6, 7763.	5.8	33
203	Dynamic light scattering at low rates of shear. <i>Journal De Physique</i> , 1981, 42, 929-936.	1.8	33
204	Molecular director and layer response of chevron surface stabilized ferroelectric liquid crystals to low electric field. <i>Liquid Crystals</i> , 1992, 11, 581-592.	0.9	32
205	Friction Effects in Atomic Force Microscopy of Patterned Octadecyltriethoxysilane-on-Glass Self-Assembled Monolayers. <i>Langmuir</i> , 1998, 14, 5495-5501.	1.6	32
206	Structural transitions and guest/host complexing of liquid crystal helical nanofilaments induced by nanoconfinement. <i>Science Advances</i> , 2017, 3, e1602102.	4.7	32
207	Density fluctuation dynamics in a screened Coulomb colloid: Comparison of the liquid and bcc crystal phases. <i>Journal of Chemical Physics</i> , 1987, 86, 6616-6621.	1.2	31
208	Electric-field-induced transition between the polarization-modulated and ferroelectric smectic-CSPF liquid crystalline states studied using microbeam x-ray diffraction. <i>Physical Review E</i> , 2005, 71, 011705.	0.8	31
209	Main-Chain Chiral Smectic Polymers Showing a Large Electroclinic Effect in the SmA Phase. <i>Chemistry of Materials</i> , 2006, 18, 4576-4584.	3.2	31
210	Electric field induced transitions from TGBA* and TGBC* to smectic A and C states. <i>Ferroelectrics</i> , 1993, 147, 255-262.	0.3	30
211	Fluctuations and clinicity in tilted smectic liquid crystals. <i>Physical Review E</i> , 2002, 66, 021711.	0.8	30
212	Pretransitional Orientational Ordering of a Calamitic Liquid Crystal by Helical Nanofilaments of a Bent-Core Mesogen. <i>Langmuir</i> , 2010, 26, 15541-15545.	1.6	30
213	VI. Applications of S-layers. <i>FEMS Microbiology Reviews</i> , 1997, 20, 151-175.	3.9	29
214	Novel liquid-crystalline mesogens and main-chain chiral smectic thiol-ene polymers based on trifluoromethylphenyl moieties. <i>Journal of Materials Chemistry</i> , 2009, 19, 7208.	6.7	29
215	New ionic organic compounds containing a linear tris(imidazolium) core and their thermotropic liquid crystal behaviour. <i>Liquid Crystals</i> , 2013, 40, 1067-1081.	0.9	29
216	Friction factors for a lattice of Brownian particles. <i>Journal of Fluid Mechanics</i> , 1985, 153, 401.	1.4	28

#	ARTICLE	IF	CITATIONS
217	Ferroelectric switching of chiral discotic lyomesophases. <i>Ferroelectrics</i> , 2000, 243, 207-220.	0.3	28
218	Reflection Symmetry Breaking in Achiral Rod-Shaped Smectic Liquid Crystals?. <i>Journal of the American Chemical Society</i> , 2006, 128, 5318-5319.	6.6	28
219	Self-assembled hydrophobic surface generated from a helical nanofilament (B4) liquid crystal phase. <i>Soft Matter</i> , 2013, 9, 2793.	1.2	28
220	A Study of Brownian Motion Using Light Scattering. <i>American Journal of Physics</i> , 1969, 37, 853-854.	0.3	27
221	Device Applications of Ferroelectric Liquid Crystals: Importance of Polarization Charge Interactions. <i>Proceedings of SPIE</i> , 1989, , .	0.8	27
222	Ferroelectric liquid crystals for second order nonlinear optics. <i>Pure and Applied Chemistry</i> , 1999, 71, 2117-2123.	0.9	27
223	Giant surface electroclinic effect in a chiral smectic A liquid crystal. <i>Liquid Crystals</i> , 2001, 28, 117-123.	0.9	27
224	Transition moment orientation and rotational bias of three carbonyl groups in large polarization FLCs observed by polarized FTIR. <i>Liquid Crystals</i> , 2002, 29, 27-37.	0.9	27
225	Manipulation of Disk-Shaped Islands on Freely Suspended Smectic Films and Bubbles Using Optical Tweezers. <i>Ferroelectrics</i> , 2004, 310, 131-135.	0.3	27
226	Effect of high spontaneous polarization on defect structures and orientational dynamics of tilted chiral smectic freely suspended films. <i>Physical Review E</i> , 2005, 71, 021704.	0.8	27
227	Three-dimensional textures and defects of soft material layering revealed by thermal sublimation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19263-19267.	3.3	27
228	Incorporation of photoreceptor membrane into a multilamellar film. <i>Biophysical Journal</i> , 1980, 31, 45-52.	0.2	26
229	Molecular design of ferroelectric liquid crystals. <i>Ferroelectrics</i> , 1988, 84, 65-72.	0.3	26
230	String defects in freely suspended liquid-crystal films. <i>Physical Review Letters</i> , 1992, 69, 2783-2786.	2.9	26
231	Sub 100 Nanosecond Pretilted Planar-to-Homeotropic Reorientation of Nematic Liquid Crystals under High Electric Field. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 2587-2589.	0.8	26
232	Unusual Thickness-Dependent Thermal Behavior and Anticlinic Coupling in Chiral Smectic Free-Standing Liquid-Crystal Films. <i>Physical Review Letters</i> , 2001, 86, 4048-4051.	2.9	26
233	Fluctuation Mediated Interaction and Phase Separation of Nanoparticles in a Liquid Crystal Solvent. <i>Physical Review Letters</i> , 2003, 91, 085704.	2.9	26
234	Dynamics of freely suspended lyotropic films. I. An inelastic light scattering study of thermal surface fluctuations. <i>Journal of Chemical Physics</i> , 1981, 74, 4171-4185.	1.2	25

#	ARTICLE	IF	CITATIONS
235	Cross-correlation intensity fluctuation spectroscopy applied to colloidal suspensions. Faraday Discussions of the Chemical Society, 1983, 76, 219.	2.2	25
236	Anisotropic thermal-lens effect in ferroelectric Ba ₂ NaNb ₅ O ₁₅ at T _c . Physical Review B, 1990, 41, 9330-9335.	1.1	25
237	Influence of backflow on the reorientation dynamics of ferroelectric liquid crystals. Physical Review E, 1994, 49, 3021-3030.	0.8	25
238	Unraveling the Mystery of "Thresholdless Antiferroelectricity": High Contrast Analog Electro-Optics in Chiral Smectic Liquid Crystals. Digest of Technical Papers SID International Symposium, 1999, 30, 409.	0.1	25
239	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
240	Orientation of chromonic liquid crystals by topographic linear channels: multi-stable alignment and tactoid structure. Liquid Crystals, 2013, 40, 1736-1747.	0.9	25
241	Chiral lyotropic chromonic liquid crystals composed of disodium cromoglycate doped with water-soluble chiral additives. Soft Matter, 2018, 14, 1511-1516.	1.2	25
242	Ideal mixing of paraelectric and ferroelectric nematic phases in liquid crystals of distinct molecular species. Liquid Crystals, 2022, 49, 1531-1544.	0.9	25
243	Statistical geometry of simple liquids in two dimensions. Physical Review A, 1990, 41, 4585-4588.	1.0	24
244	Evolution of the boulder model for the molecular origins of the polarization in ferroelectric liquid crystals. Ferroelectrics, 1991, 113, 21-36.	0.3	24
245	Use of the Boulder Model to Predict Coupling between Dipoles in the Core and Chiral Tail of Fluorinated Ferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 1991, 202, 183-192.	0.7	24
246	Theoretical studies of the influence of backflow on the dynamical behaviour of a Fredericks transition of a ferroelectric smectic C*— liquid crystal in the bookshelf geometry. Liquid Crystals, 1993, 15, 461-477.	0.9	24
247	Liquid crystal phase diagram of the Gay-Berne fluid by density functional theory. Liquid Crystals, 1997, 23, 227-234.	0.9	24
248	Influence of ions on the "V-shaped" electro-optic response of ferroelectric liquid crystals. Physical Review E, 2001, 63, 031703.	0.8	24
249	Induced Anticlinic Ordering and Nanophase Segregation of Bow-Shaped Molecules in a Smectic Solvent. Physical Review Letters, 2002, 88, 065504.	2.9	24
250	Control of Molecular Orientation in Electrostatically Stabilized Ferroelectric Liquid Crystals. Physical Review Letters, 2003, 91, 175505.	2.9	24
251	Optical Activity Produced by Layer Chirality in Bent-Core Liquid Crystals. Physical Review Letters, 2007, 98, 037802.	2.9	24
252	Inclusion Compound Based Approach to Arrays of Artificial Dipolar Molecular Rotors: Bulk Inclusions. Journal of Organic Chemistry, 2013, 78, 1768-1777.	1.7	24

#	ARTICLE	IF	CITATIONS
253	Inelastic light scattering from density fluctuations in dilute gases. II. Nonhydrodynamic behavior of a binary gas mixture. <i>Physical Review A</i> , 1975, 12, 2092-2105.	1.0	23
254	Dynamic Response Of Molecular Orientation In Ferroelectric Liquid Crystals. <i>Optical Engineering</i> , 1984, 23, .	0.5	23
255	Giant field-induced deformation of nematic and isotropic liquid crystal drops. <i>Physical Review Letters</i> , 1994, 72, 1838-1841.	2.9	23
256	FLC microdisplays. <i>Ferroelectrics</i> , 2000, 246, 97-110.	0.3	23
257	Entropy-Stabilized Smectic- C Phase in a System of Zigzag-Shaped Molecules. <i>Physical Review Letters</i> , 2004, 92, 025501.	2.9	23
258	Symmetric liquid crystal dimers containing hydrazide groups: parity- ϵ -dependent smectic structure, hydrogen bonding and substitution effect. <i>Liquid Crystals</i> , 2008, 35, 967-974.	0.9	23
259	Triclinic Fluid Order. <i>Physical Review Letters</i> , 2010, 104, 067801.	2.9	23
260	Generalized Langevin-Debye model of the field dependence of tilt, birefringence, and polarization current near the de Vries smectic- C phase. <i>Physical Review Letters</i> , 2010, 104, 067801.	0.8	23
261	End-to-end machine learning for experimental physics: using simulated data to train a neural network for object detection in video microscopy. <i>Soft Matter</i> , 2020, 16, 1751-1759.	1.2	23
262	Direct Measurement of Orientation Correlations: Observation of the Landau-Peierls Divergence in a Freely Suspended Tilted Smectic Film. <i>Physical Review Letters</i> , 1984, 53, 1157-1160.	2.9	21
263	Highly oriented fibres of discotic liquid crystals. <i>Journal of the Chemical Society Chemical Communications</i> , 1985, , 695.	2.0	21
264	Director- ϵ polarization reorientation via solitary waves in ferroelectric liquid crystals. <i>Applied Physics Letters</i> , 1992, 60, 551-553.	1.5	21
265	Liquid-crystal periodic zigzags from geometrical and surface-anchoring-induced confinement: Origin and internal structure from mesoscopic scale to molecular level. <i>Physical Review E</i> , 2010, 82, 041705.	0.8	21
266	Photoinduced and Thermal Relaxation in Surface-Grafted Azobenzene-Based Monolayers: A Molecular Dynamics Simulation Study. <i>Langmuir</i> , 2016, 32, 4004-4015.	1.6	21
267	Chiral Incommensurate Helical Phase in a Smectic of Achiral Bent-Core Mesogens. <i>Physical Review Letters</i> , 2019, 122, 107801.	2.9	21
268	Autonomous Catalytic Nanomotors Based on 2D Magnetic Nanoplates. <i>ACS Applied Nano Materials</i> , 2019, 2, 1267-1273.	2.4	21
269	Elastic light scattering by smectic A focal conic defects. <i>Journal De Physique</i> , 1982, 43, 1159-1165.	1.8	21
270	Physical properties and alignment of a polymer-monomer ferroelectric liquid crystal mixture. <i>Journal De Physique</i> , 1990, 51, 355-368.	1.8	20

#	ARTICLE	IF	CITATIONS
271	Pumping Liquid Crystals. <i>Physical Review Letters</i> , 1995, 75, 1799-1802.	2.9	20
272	Alignment of the columnar liquid crystal phase of nano-DNA by confinement in channels. <i>Liquid Crystals</i> , 2012, 39, 571-577.	0.9	20
273	Mutual Diffusion of Inclusions in Freely Suspended Smectic Liquid Crystal Films. <i>Physical Review Letters</i> , 2014, 113, 128304.	2.9	20
274	Molecular structure of the discotic liquid crystalline phase of hexa-peri-hexabenzocoronene/oligothiophene hybrid and their charge transport properties. <i>Journal of Chemical Physics</i> , 2015, 143, 144505.	1.2	20
275	Unique two-way free-standing thermo- and photo-responsive shape memory azobenzene-containing polyurethane liquid crystal network. <i>Science China Materials</i> , 2020, 63, 2590-2598.	3.5	20
276	Studies of nematic-isotropic transition for a Gay-Berne fluid using the second virial approximation. <i>Liquid Crystals</i> , 1996, 21, 265-271.	0.9	19
277	Polar electro-optic switching in droplets of an achiral nematic liquid crystal. <i>Liquid Crystals</i> , 1999, 26, 1555-1561.	0.9	19
278	Discrete elastic model for two-dimensional melting. <i>Physical Review E</i> , 2006, 73, 041501.	0.8	19
279	A bistable liquid-crystal display mode based on electrically driven smectic A layer reorientation. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	19
280	Propagation of Chirality in Mixtures of Natural and Enantiomeric DNA Oligomers. <i>Physical Review Letters</i> , 2013, 110, 107801.	2.9	19
281	Evidence of Liquid Crystal-Assisted Abiotic Ligation of Nucleic Acids. <i>Origins of Life and Evolution of Biospheres</i> , 2015, 45, 51-68.	0.8	19
282	Highly Stiff and Stretchable DNA Liquid Crystalline Organogels with Super Plasticity, Ultrafast Self-Healing, and Magnetic Response Behaviors. <i>Advanced Materials</i> , 2022, 34, e2106208.	11.1	19
283	Ferroelectric Liquid Crystal Spatial Light Modulator. <i>Molecular Crystals and Liquid Crystals</i> , 1987, 144, 309-316.	0.9	18
284	Atomic-detail simulation studies of tilted smectics. <i>Journal of Physics Condensed Matter</i> , 1994, 6, A261-A268.	0.7	18
285	Soliton switching in ferroelectric liquid crystals and their transient electro-optic response. <i>Journal of Applied Physics</i> , 1994, 76, 820-831.	1.1	18
286	Dynamic behaviour at a nematic liquid crystal-rubbednylon interface using evanescent wave photon correlation spectroscopy. <i>Liquid Crystals</i> , 1994, 16, 135-142.	0.9	18
287	Atomic-Detail Simulation Studies of Smectic Liquid Crystals. <i>Molecular Simulation</i> , 1995, 14, 343-360.	0.9	18
288	Quantum chemistry based force fields for soft matter. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1997, 53, 1325-1346.	2.0	18

#	ARTICLE	IF	CITATIONS
289	Pretransitional behavior of a water in liquid crystal microemulsion close to the demixing transition: Evidence for intermicellar attraction mediated by paranematic fluctuations. <i>Journal of Chemical Physics</i> , 2005, 122, 214721.	1.2	18
290	On the Origin of the "Giant" Electroclinic Effect in a "De Vries" Type Ferroelectric Liquid Crystal Material for Chirality Sensing Applications. <i>ChemPhysChem</i> , 2009, 10, 890-892.	1.0	18
291	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> , 2012, 86, 051701.	0.8	18
292	Visible polarized light transmission spectroscopy of the electro-optic switching behaviour of surface stabilized ferroelectric liquid crystal cells. <i>Liquid Crystals</i> , 1991, 10, 409-417.	0.9	17
293	Scanning tunneling microscopy of coexisting 2D crystalline and 1D stacking-disordered phases at the chiral-liquid-crystal-graphite interface. <i>Physical Review Letters</i> , 1993, 70, 607-610.	2.9	17
294	Annihilation rate and scaling in a two-dimensional system of charged particles. <i>Physical Review E</i> , 1995, 51, 411-417.	0.8	17
295	Orientation Field Fracture in a Liquid Crystal: Metastable Anticlinic Molecular Tilt in Adjacent Layers in Smectic-CDOBAMBC and TFMHPOBC. <i>Physical Review Letters</i> , 1999, 83, 3665-3668.	2.9	17
296	The B2-B7 phase transition in symmetrical bent-shaped mesogens with methoxy substitution. <i>Liquid Crystals</i> , 2005, 32, 967-975.	0.9	17
297	Modeling dipolar and quadrupolar defect structures generated by chiral islands in freely suspended liquid crystal films. <i>Physical Review E</i> , 2009, 80, 041708.	0.8	17
298	Physico-chemical confinement of helical nanofilaments. <i>Soft Matter</i> , 2015, 11, 3653-3659.	1.2	17
299	Realization of hydrodynamic experiments on quasi-2D liquid crystal films in microgravity. <i>Advances in Space Research</i> , 2017, 60, 737-751.	1.2	17
300	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. <i>Liquid Crystals</i> , 2019, 46, 376-385.	0.9	17
301	Inelastic light scattering from isotropic MBBA. <i>Journal of Chemical Physics</i> , 1975, 63, 4133-4138.	1.2	16
302	Self-consistent model of an annihilation-diffusion reaction with long-range interactions. <i>Physical Review E</i> , 1997, 55, 395-402.	0.8	16
303	de Gennes' triclinic smectics "not so far-fetched after all. <i>Liquid Crystals</i> , 2009, 36, 1309-1317.	0.9	16
304	Multidimensional Helical Nanostructures in Multiscale Nanochannels. <i>Langmuir</i> , 2015, 31, 8156-8161.	1.6	16
305	Spectroscopic study of photoreceptor membrane incorporated into a multilamellar film. <i>Biochemical and Biophysical Research Communications</i> , 1980, 92, 1266-1272.	1.0	15
306	High performance electroclinic materials. <i>Ferroelectrics</i> , 1993, 148, 435-442.	0.3	15

#	ARTICLE	IF	CITATIONS
307	Smectic liquid crystal alignment using mechanically rubbed n-octadecylsiloxane self-assembled monolayers. <i>Liquid Crystals</i> , 2002, 29, 1015-1024.	0.9	15
308	The peculiar optic, dielectric and X-ray diffraction properties of a fluorinated de Vries asymmetric diffuse cone model ferroelectric liquid crystal. <i>Liquid Crystals</i> , 2006, 33, 17-23.	0.9	15
309	Effective conductivity due to continuous polarization reorientation in fluid ferroelectrics. <i>Physical Review E</i> , 2011, 84, 020701.	0.8	15
310	Dinuclear ortho-metallated palladium(II) azobenzene complexes with acetate and chloro bridges: Influence of polar substituents on the mesomorphic properties. <i>Journal of Organometallic Chemistry</i> , 2012, 712, 20-28.	0.8	15
311	Elementary building blocks of nematic disclination networks in densely packed 3D colloidal lattices. <i>Soft Matter</i> , 2013, 9, 8203.	1.2	15
312	Experimental realization of an incompressible Newtonian fluid in two dimensions. <i>Physical Review E</i> , 2016, 93, 012706.	0.8	15
313	Understanding the origin of liquid crystal ordering of ultrashort double-stranded DNA. <i>Physical Review E</i> , 2017, 95, 032702.	0.8	15
314	Observation of a Frequency-Dependent Thermal Conductivity in a Polyatomic Gas. <i>Physical Review Letters</i> , 1972, 29, 150-154.	2.9	14
315	Model For The Molecular Origins Of The Polarization In Ferroelectric Liquid Crystals. , 1988, , .		14
316	Scanning tunneling microscope surface imaging and etching of single crystals of the high-temperature superconductor $Tl_2Ba_2CuO_6$. <i>Applied Physics Letters</i> , 1991, 59, 1506-1508.	1.5	14
317	Ferroelectric Liquid Crystals Designed for Electronic Nonlinear Optical Applications. <i>ACS Symposium Series</i> , 1991, , 484-496.	0.5	14
318	First-Order Transitions and Hexatic Ordering in the Aerogel-Confined Liquid Crystal 650BC. <i>Physical Review Letters</i> , 1996, 77, 2507-2510.	2.9	14
319	Supramolecular stereochemistry in ferroelectric liquid crystals. <i>Journal of Physical Organic Chemistry</i> , 2000, 13, 830-836.	0.9	14
320	Direct Measurement of Interaction Forces Between Islands on Freely Suspended Smectic C Films Using Multiple Optical Tweezers. <i>Ferroelectrics</i> , 2006, 344, 71-80.	0.3	14
321	A General Method for Measurement of Enantiomeric Excess by Using Electrooptics in Ferroelectric Liquid Crystals. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1473-1475.	7.2	14
322	V -shaped switching ferroelectric liquid crystal structure stabilized by dielectric surface layers. <i>Physical Review E</i> , 2008, 77, 031707.	0.8	14
323	Chiral random grain boundary phase of achiral hockey-stick liquid crystals. <i>Soft Matter</i> , 2014, 10, 9105-9109.	1.2	14
324	The Layer and Director Structures of Ferroelectric Liquid Crystals. <i>NATO ASI Series Series B: Physics</i> , 1992, , 287-341.	0.2	14

#	ARTICLE	IF	CITATIONS
325	Stroboscopic microscopy of ferroelectric liquid crystals. <i>Physical Review E</i> , 1993, 48, 2043-2054.	0.8	13
326	Shear-induced melting of two-dimensional solids. <i>Physical Review B</i> , 1993, 47, 5622-5628.	1.1	13
327	The hysteretic behavior of π -V-shaped switching smectic materials. <i>Ferroelectrics</i> , 2000, 246, 21-33.	0.3	13
328	Orientation control over bent-core smectic liquid crystal phases. <i>Liquid Crystals</i> , 2014, 41, 328-341.	0.9	13
329	Chiral Isotropic Sponge Phase of Hexatic Smectic Layers of Achiral Molecules. <i>ChemPhysChem</i> , 2014, 15, 1502-1507.	1.0	13
330	Fisheye lens conoscopy. <i>Liquid Crystals</i> , 2015, 42, 271-287.	0.9	13
331	Solitary Waves in Ferroelectric Liquid Crystals. <i>Partially Ordered Systems</i> , 1992, , 151-190.	6.5	13
332	Observation of Extended Boundary Layers in the Permeative Flow of a Smectic-A Liquid Crystal around an Obstacle. <i>Physical Review Letters</i> , 1978, 40, 1663-1666.	2.9	12
333	Novel liquid-crystal phase-transition behavior at the chiral nematic-smectic-A-smectic-C point. <i>Physical Review Letters</i> , 1989, 62, 2136-2139.	2.9	12
334	Local layer structure of the steep field line defect in surface-stabilized ferroelectric liquid crystal cells. <i>Liquid Crystals</i> , 1992, 12, 891-904.	0.9	12
335	Studies of the higher order smectic phase of the large electroclinic effect material W317. <i>Liquid Crystals</i> , 1993, 14, 1095-1105.	0.9	12
336	Evidence from infrared dichroism, x-ray diffraction, and atomistic computer simulation for a zigzag molecular shape in tilted smectic liquid crystal phases. <i>Physical Review E</i> , 2001, 64, 051712.	0.8	12
337	Nonplanar structure of molecular tilt planes in the surface layers of smectic-A free-standing liquid crystal films. <i>Physical Review E</i> , 2002, 66, 040701.	0.8	12
338	Isotropic to smectic A phase transitions in a porous matrix: a case of multiporous phase coexistence. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S175-S182.	0.7	12
339	Chirality Detection with FLCs—a Comment. <i>Ferroelectrics</i> , 2004, 309, 121-123.	0.3	12
340	Electric-Field-Driven Deracemization. <i>ChemPhysChem</i> , 2007, 8, 170-174.	1.0	12
341	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> , 2011, 27, 3336-3342.	1.6	12
342	Hydrodynamic interactions in freely suspended liquid crystal films. <i>Physical Review E</i> , 2016, 94, 052701.	0.8	12

#	ARTICLE	IF	CITATIONS
343	Phases and structures of sunset yellow and disodium cromoglycate mixtures in water. <i>Physical Review E</i> , 2016, 93, 012704.	0.8	12
344	Effect of Conformational Chirality on Optical Activity Observed in a Smectic of Achiral, Bent-Core Molecules. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6944-6950.	1.2	12
345	Co-existing lyotropic liquid crystals : commensurate, faceted and co-planar single hexagonal (HII) domains in lamellar photoreceptor membranes. <i>Journal De Physique</i> , 1985, 46, 193-201.	1.8	12
346	Orientalational plasticity at a smectic-liquid-crystalâ€“anisotropic-solid interface. <i>Physical Review A</i> , 1992, 45, R6981-R6984.	1.0	11
347	Theory of Evanescent Light Wave Scattering at the Solid-Nematic Interface. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 222, 111-118.	0.3	11
348	Time-resolved infrared spectroscopy of molecule/binding site reorientation during ferroelectric liquid crystal electro-optic switching. <i>Physical Review E</i> , 2000, 62, 5154-5159.	0.8	11
349	Atomic Force Microscopy of freely suspended liquid crystal films transferred to octadecyltriethoxysilane self-assembled monolayers. <i>Liquid Crystals</i> , 2000, 27, 501-507.	0.9	11
350	Mean field theory-based calculation of FLC polarization. <i>Liquid Crystals</i> , 2002, 29, 1073-1085.	0.9	11
351	Chiral SmA* materials for display applications?. <i>Journal of the Society for Information Display</i> , 2007, 15, 585-588.	0.8	11
352	Bistable SmA liquidâ€“crystal display driven by a twoâ€“direction electric field. <i>Journal of the Society for Information Display</i> , 2008, 16, 675-681.	0.8	11
353	Synthesis and physical properties of a main-chain chiral smectic thiol-ene oligomer. <i>Liquid Crystals</i> , 2010, 37, 325-334.	0.9	11
354	Direct observation of two-dimensional nematic and smectic ordering in freely suspended films of a bolaamphiphilic liquid crystal. <i>Soft Matter</i> , 2011, 7, 9978.	1.2	11
355	Phase Winding of a Nematic Liquid Crystal by Dynamic Localized Reorientation of an Azo-Based Self-Assembled Monolayer. <i>Langmuir</i> , 2014, 30, 9560-9566.	1.6	11
356	Evidence of a first-order smectic-hexatic transition and its proximity to a tricritical point in smectic films. <i>Physical Review E</i> , 2018, 98, .	0.8	11
357	Liquid Crystal Ordering of Four-Base-Long DNA Oligomers with Both Gâ€“C and Aâ€“T Pairing. <i>Crystals</i> , 2018, 8, 5.	1.0	11
358	Electric field induced bendâ€“undulation instability in a ferroelectric smectic C. <i>Applied Physics Letters</i> , 1979, 35, 688-690.	1.5	10
359	A Heat Capacity Study of Phase Transitions in the Ferroelectric Liquid Crystal (<i>p</i> -Hexyloxybenzylidene <i>p</i> '-amino-2-chloropropyl cinnamate (HOBACPC). <i>Molecular Crystals and Liquid Crystals</i> , 1983, 100, 145-151.	0.9	10
360	Liquid Crystals With a Chiral Core: Cyclohexene Carboxylates. <i>Molecular Crystals and Liquid Crystals</i> , 1991, 199, 379-386.	0.7	10

#	ARTICLE	IF	CITATIONS
361	Total-internal-reflection study of a colloidal-crystalâ€œcontainer-wall interface. <i>Physical Review A</i> , 1991, 44, 6616-6625.	1.0	10
362	Infrared spectroscopic study of molecular hydrogen bonding in chiral smectic liquid crystals. <i>Physical Review E</i> , 2000, 62, 5027-5035.	0.8	10
363	Bilayer-by-bilayer antiferroelectric ordering in freely suspended films of an achiral polymer-monomer liquid crystal mixture. <i>Physical Review E</i> , 2000, 61, R37-R40.	0.8	10
364	Field control of the surface electroclinic effect in chiral smectic-A liquid crystals. <i>Physical Review E</i> , 2004, 69, 061716.	0.8	10
365	High Extinction Polarimeter for the Precision Measurement of the In-Plane Optical Anisotropy of Molecular Monolayers. <i>Langmuir</i> , 2010, 26, 11686-11689.	1.6	10
366	Cooperative liquid-crystal alignment generated by overlaid topography. <i>Physical Review E</i> , 2011, 83, 051708.	0.8	10
367	Topography of bent-core liquid crystals at the air/liquid crystal interface. <i>Liquid Crystals</i> , 2013, 40, 1730-1735.	0.9	10
368	Field alignment of bent-core smectic liquid crystals for analog optical phase modulation. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	10
369	Fluorescence Confocal Polarizing Microscopy of a Fluorescent Bent-Core Liquid Crystal Exhibiting Polarization Splay Modulated (B7) Structures and Defects. <i>ChemPhysChem</i> , 2015, 16, 243-255.	1.0	10
370	Challenges in the Structure Determination of Self-Assembled Metallacages: What Do Cage Cavities Contain, Internal Vapor Bubbles or Solvent and/or Counterions?. <i>Journal of the American Chemical Society</i> , 2016, 138, 6676-6687.	6.6	10
371	A supramolecular hydrogel prepared from a thymine-containing artificial nucleolipid: study of assembly and lyotropic mesophases. <i>Soft Matter</i> , 2018, 14, 7045-7051.	1.2	10
372	Molecular p-doping in organic liquid crystalline semiconductors: influence of the charge transfer complex on the properties of mesophase and bulk charge transport. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18686-18698.	1.3	10
373	Structure and dynamics of a two-dimensional colloid of liquid droplets. <i>Soft Matter</i> , 2019, 15, 8156-8163.	1.2	10
374	Hypersonic Velocity Measurements in Liquid Dichloromethane. <i>Journal of Chemical Physics</i> , 1966, 44, 2528-2529.	1.2	9
375	Chevron layer structures in surface stabilized ferroelectric liquid crystal (SSFLC) cells filled with a material which exhibits the chiral nematic to smectic C [*] phase transition. <i>Ferroelectrics</i> , 1991, 113, 245-256.	0.3	9
376	Studies on Ferroelectric Liquid Crystal Tolan Derivatives Designed for Nonlinear Optical Applications. <i>Materials Research Society Symposia Proceedings</i> , 1992, 277, 205.	0.1	9
377	Flow Coupled Switching Equations for Surface-Stabilized Ferroelectric Liquid Crystal Cells. <i>Japanese Journal of Applied Physics</i> , 1995, 34, 560-565.	0.8	9
378	Stress-induced Vortex Line Helixing Avalanches in the Plastic Flow of a Smectic A Liquid Crystal. <i>Science</i> , 1995, 267, 651-654.	6.0	9

#	ARTICLE	IF	CITATIONS
379	Dynamic behavior of oscillatory plastic flow in a smectic liquid crystal. <i>Physical Review E</i> , 1997, 56, 3028-3043.	0.8	9
380	A new potential for the description of intermolecular interactions for rigid biaxial molecules. <i>Chemical Physics</i> , 1997, 214, 253-260.	0.9	9
381	HFF: a force field for liquid crystal molecules. <i>Computational and Theoretical Chemistry</i> , 1999, 464, 39-48.	1.5	9
382	A Mainâ€Chain de Vries Smectic Liquid Crystal Polymer Prepared by Hoveydaâ€Grubbs Catalyst Initiated Acyclic Diene Metathesis Polymerization. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1894-1899.	2.0	9
383	Surface energetics of freely suspended fluid molecular monolayer and multilayer smectic liquid crystal films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12873-12877.	3.3	9
384	Spiral layer undulation defects in B7 liquid crystals. <i>Soft Matter</i> , 2013, 9, 11303.	1.2	9
385	Nucleation and growth of a helical nanofilament (B4) liquid-crystal phase confined in nanobowls. <i>Soft Matter</i> , 2015, 11, 7778-7782.	1.2	9
386	Liquid crystal phase behavior of a DNA dodecamer and the chromonic dye Sunset Yellow. <i>Physical Review E</i> , 2018, 98, .	0.8	9
387	Mono- and bilayer smectic liquid crystal ordering in dense solutions of gappedâ€DNA duplexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
388	Continuity of flow alignment parameters across the nematic-isotropic phase transition. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1973, 46, 171-172.	0.9	8
389	Computer simulation of domain growth in ferroelectric liquid crystals. <i>Physical Review E</i> , 1995, 52, 3904-3914.	0.8	8
390	Scaling theory of particle annihilation in systems with a long-range interaction. <i>Physical Review E</i> , 1995, 52, 2583-2586.	0.8	8
391	Polymerization of polymer/ferroelectric liquid crystal composites formed with branched liquid crystalline bismethacrylates. <i>Liquid Crystals</i> , 1998, 24, 263-270.	0.9	8
392	Biaxial model of the surface anchoring of bent-core smectic liquid crystals. <i>Physical Review E</i> , 2001, 64, 031706.	0.8	8
393	Ferroelectric and antiferroelectric oddâ€even behavior in a tricarbosilane-terminated liquid crystal homologous series. <i>Chemical Science</i> , 2014, 5, 1869-1874.	3.7	8
394	Nanoparticle Aggregation and Fractal Growth in Fluid Smectic Membranes. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 611, 14-20.	0.4	8
395	Two-dimensional island emulsions in ultrathin, freely-suspended smectic liquid crystal films. <i>Soft Matter</i> , 2017, 13, 6314-6321.	1.2	8
396	Coalescence of islands in freely suspended smectic films. <i>Physical Review Research</i> , 2021, 3, .	1.3	8

#	ARTICLE	IF	CITATIONS
397	Thermal fluctuation effects in ferroelectric liquid-crystal polarization reversal: Light scattering from a transient domain-wall foam. <i>Physical Review A</i> , 1991, 44, 2543-2557.	1.0	7
398	Third International Ferroelectric Liquid Crystal Conference (FLC 91) University of Colorado, Boulder, Colorado, USA, June 24-28 1991. <i>Liquid Crystals Today</i> , 1991, 1, 4-4.	2.3	7
399	Smart adaptive optic systems using spatial light modulators. <i>IEEE Transactions on Neural Networks</i> , 1999, 10, 599-603.	4.8	7
400	Electronic electrooptic phase modulation using bent-core liquid crystals. <i>Applied Physics Letters</i> , 2005, 87, 261115.	1.5	7
401	Director structures in achiral smectic C liquid crystal cells: field-induced twist domain nucleation. <i>Liquid Crystals</i> , 2006, 33, 25-32.	0.9	7
402	Hough Reply. <i>Physical Review Letters</i> , 2008, 101, .	2.9	7
403	Photodegradation of Azobenzene-Based Self-assembled Monolayers Characterized by In-Plane Birefringence. <i>Langmuir</i> , 2011, 27, 10407-10411.	1.6	7
404	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> , 2012, 85, 031704.	0.8	7
405	Dynamic bending rigidity of surfactant layers in swollen lyotropic lamellar liquid-crystal phases. <i>Physical Review Letters</i> , 1991, 67, 2303-2306.	2.9	6
406	Are short-pitch bistable ferroelectric liquid crystal cells surface stabilized?. <i>Liquid Crystals</i> , 1993, 14, 1079-1086.	0.9	6
407	Design and synthesis of ferroelectric liquid crystals. 22. side-by-side dimers for nonlinear optics. <i>Ferroelectrics</i> , 1996, 179, 211-220.	0.3	6
408	Dynamics of vacancy defects in 2-D crystalline monolayers under chiral smectic thin films studied by scanning tunnelling microscopy. <i>Liquid Crystals</i> , 1997, 22, 531-534.	0.9	6
409	Time-resolved infrared spectroscopy of nematic-liquid-crystal electro-optic switching. <i>Physical Review E</i> , 2001, 63, 031707.	0.8	6
410	Microscopic origins of first-order $Sm-A$ phase behavior in de Vries smectic liquid crystals. <i>Physical Review E</i> , 2013, 87, 050502.	0.8	6
411	Manipulating the twist sense of helical nanofilaments of bent-core liquid crystals using rod-shaped, chiral mesogenic dopants. <i>Liquid Crystals</i> , 2016, 43, 1083-1091.	0.9	6
412	Active microrheology of smectic membranes. <i>Physical Review E</i> , 2017, 95, 022702.	0.8	6
413	Nanoconfined heliconical structure of twist-bend nematic liquid crystal phase. <i>Liquid Crystals</i> , 2019, 46, 316-325.	0.9	6
414	Freely suspended smectic films with in-plane temperature gradients. <i>New Journal of Physics</i> , 2019, 21, 063033.	1.2	6

#	ARTICLE	IF	CITATIONS
415	A gas flow meter with linear sensitivity based on freely-suspended nanofilms of smectic liquid crystal. Applied Physics Letters, 2019, 114, .	1.5	6
416	Laser-induced buckling of a thin free-standing crystal film. Applied Optics, 1985, 24, 3685.	2.1	5
417	Raman scattering from freely suspended liquid crystal films. Journal of Chemical Physics, 1989, 91, 5212-5217.	1.2	5
418	Optical Symmetry of Ferroelectric Liquid Crystal Cells. Japanese Journal of Applied Physics, 1990, 29, L2239-L2242.	0.8	5
419	Director structures of a chiral Smectic I liquid crystal in the surface stabilized geometry. Ferroelectrics, 1991, 122, 213-220.	0.3	5
420	Control of gas permeation via electrohydrodynamic convection in a liquid crystal membrane. Journal of Membrane Science, 1992, 74, 223-231.	4.1	5
421	Theory of orientational modes at a nematic-solid interface When do surface modes appear?. Liquid Crystals, 1994, 17, 149-155.	0.9	5
422	<title>Theory of chiral-racemic mixtures near the Smectic C-Smectic A transition point: dependence of spontaneous polarization and transition temperature on enantiometric excess</title>. , 1994, , .		5
423	Generalized dynamic domain shape calculation in ferroelectric liquid crystals. Physical Review E, 1996, 53, 6074-6079.	0.8	5
424	Main-Chain Ferroelectric Liquid Crystal Polymers for Electronic Nonlinear Optics Applications 1. Ferroelectrics, 2004, 309, 77-82.	0.3	5
425	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
426	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
427	The heliconical nematic twist-bend phase from α -bent-core benzylideneanilines with oligomethylene cores. Molecular Crystals and Liquid Crystals, 2017, 647, 430-438.	0.4	5
428	Precision adiabatic scanning calorimetry of a nematic α ferroelectric nematic phase transition. Liquid Crystals, 2022, 49, 780-789.	0.9	5
429	Understanding and Manipulating Helical Nanofilaments in Binary Systems with Achiral Dopants. Nano Letters, 2022, 22, 4569-4575.	4.5	5
430	Continued studies of an electroconvective liquid membrane for gas separation. Journal of Membrane Science, 1995, 99, 249-257.	4.1	4
431	Scaling model of annihilation-diffusion kinetics for charged particles with long-range interactions. Physical Review E, 1996, 54, R1056-R1057.	0.8	4
432	Design and Synthesis of Ferroelectric Liquid Crystals. 25. An Approach to New Materials for Ultra-Fast Electronic Electro-Optic Modulators. Molecular Crystals and Liquid Crystals, 1996, 288, 83-91.	0.3	4

#	ARTICLE	IF	CITATIONS
433	Spontaneous formation of horizontal chevrons in smectic-C* liquid crystals. Applied Physics Letters, 2001, 78, 1532-1534.	1.5	4
434	Polarity-directed analog electro-optic switching in a low-polarization chiral smectic liquid crystal with positive dielectric anisotropy. Physical Review E, 2004, 70, 031703.	0.8	4
435	Orthogonal Orientation of Chromonic Liquid Crystals by Rubbed Polyamide Films. ChemPhysChem, 2014, 15, 1376-1380.	1.0	4
436	Airflow-aligned helical nanofilament (B4) phase in topographic confinement. Scientific Reports, 2016, 6, 29111.	1.6	4
437	Aggregation-driven, re-entrant isotropic phase in a smectic liquid crystal material. Liquid Crystals, 2017, 44, 769-783.	0.9	4
438	New SmAPF Mesogens Designed for Analog Electrooptics Applications. Materials, 2017, 10, 1284.	1.3	4
439	The Tiling Structure of Simple Liquids Squares and Triangles in Two Dimensions. NATO ASI Series Series B: Physics, 1990, , 193-204.	0.2	4
440	[42] Preparation of oriented multilamellar arrays of natural and artificial biological membranes. Methods in Enzymology, 1982, , 326-333.	0.4	3
441	<title>Device Application Of Ferroelectric Liquid Crystals</title>. Proceedings of SPIE, 1986, 0625, 60.	0.8	3
442	Switching Dynamics And Structures Of Ferroelectric Liquid Crystals In The Surface Stabilized Geometry. Proceedings of SPIE, 1988, , .	0.8	3
443	Use of polar solvents in an electroconvective liquid. Journal of Membrane Science, 1993, 84, 191-196.	4.1	3
444	The mountain defect. A new kind of planar defect in surface stabilized smectic C liquid crystals. Liquid Crystals, 1993, 15, 417-427.	0.9	3
445	Relating domain shape to growth velocity anisotropy: Inherent symmetry of the Wulff construction. Physical Review E, 1997, 56, 1833-1837.	0.8	3
446	A numerical simulation of the evolution of nanometer-scale surface topography generated by ion milling. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 1178-1182.	0.9	3
447	Comment on "Freezing by Heating in a Driven Mesoscopic System". Physical Review Letters, 2003, 90, 189603.	2.9	3
448	A convective turbulent state that spatially orders upon increased drive. Physics of Fluids, 2005, 17, 055101.	1.6	3
449	Temperature- and hydrogen-induced changes in the optical properties of Pd capped V thin films. Physica Scripta, 2012, 86, 065702.	1.2	3
450	Dendritic growth in a two-dimensional smectic E freely suspended film. Molecular Systems Design and Engineering, 2020, 5, 815-819.	1.7	3

#	ARTICLE	IF	CITATIONS
451	Moving while you're stuck: a macroscopic demonstration of an active system inspired by binding-mediated transport in biology. <i>Soft Matter</i> , 2021, 17, 2957-2962.	1.2	3
452	A Novel Application of the Host-Guest Paradigm: Design of Organic Optoelectronic Materials. , 1990, , 81-92.		3
453	Polymer microdiscs. <i>Journal De Physique (Paris), Lettres</i> , 1985, 46, 277-281.	2.8	3
454	Composite Biomolecular/Solid State Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 1989, 174, 151.	0.1	2
455	X-Ray Diffraction Studies of Tubules Formed from a Diacetylenic Phosphocholine Lipid. <i>Materials Research Society Symposia Proceedings</i> , 1991, 248, 83.	0.1	2
456	Ferroelectric Liquid Crystals for Nonlinear Optics: can we Really do It?. <i>Materials Research Society Symposia Proceedings</i> , 1995, 392, 157.	0.1	2
457	Dielectric spectroscopic determination of temperature behavior of electroclinic parameters in the liquid crystal W317. <i>Journal of Applied Physics</i> , 1995, 78, 413-417.	1.1	2
458	Link, Maclennan, and Clark Reply:. <i>Physical Review Letters</i> , 2001, 86, 4975-4975.	2.9	2
459	Comment on "Gas-Liquid Transition in a Two-Dimensional System of Millimeter-Sized Like-Charged Metal Balls". <i>Physical Review Letters</i> , 2001, 87, .	2.9	2
460	Three-dimensional dye distribution in photo-oriented liquid-crystal alignment layers. <i>Europhysics Letters</i> , 2002, 58, 67-73.	0.7	2
461	Optically reconfigurable patterning for control of the propagation characteristics of a planar waveguide. <i>Applied Physics Letters</i> , 2008, 93, 143506.	1.5	2
462	Universal Behavior in Phospholipid Multimembrane Systems. <i>NATO ASI Series Series B: Physics</i> , 1990, , 255-263.	0.2	2
463	Personal-computer-based programmable temperature controller for general laboratory applications. <i>Review of Scientific Instruments</i> , 1985, 56, 775-775.	0.6	1
464	A Novel Application of the Molecular Recognition Paradigm: Design of Ferroelectric Liquid Crystals. , 1989, , .		1
465	Proximity effect for scrolling spatial light modulator applications of surface-stabilized ferroelectric liquid-crystal switching. <i>Applied Physics Letters</i> , 1990, 56, 1646-1648.	1.5	1
466	Optical Crystallization Work. <i>Science</i> , 1991, 252, 1049-1049.	6.0	1
467	Structure of 2-phenylacetophenone. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1993, 49, 406-408.	0.4	1
468	<title>Backflow effects in SSFLC switching</title>. , 1993, 1911, 77.		1

#	ARTICLE	IF	CITATIONS
469	Scanning Tunneling Microscopy of Coexisting 2D Crystalline and 1D Stacking-Disordered Phases at the Chiral-Liquid-Crystal-Graphite Interface. <i>Physical Review Letters</i> , 1993, 70, 3359-3360.	2.9	1
470	Biologically Derived Nanometer-Scale Patterning on Chemically Modified Silicon Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 1993, 330, 121.	0.1	1
471	<title>V-shaped switching in ferroelectric liquid crystals</title>. , 1999, 3800, 136.		1
472	Design of Smectic Liquid Crystal Phases Using Layer Interface Chirality. <i>ACS Symposium Series</i> , 2001, , 268-281.	0.5	1
473	Novel Thickness-Dependent Thermal Behavior and Anticlinic Coupling in Chiral Smectic Free-Standing Liquid-Crystal Films. <i>Ferroelectrics</i> , 2002, 277, 197-206.	0.3	1
474	Second-harmonic generation from rubbed ferroelectric liquid crystal mesogenic monolayer surfaces. <i>Physical Review E</i> , 2003, 67, 051707.	0.8	1
475	Unusual Thickness-Dependent Thermal Behavior in Chiral Smectic Free-Standing Liquid-Crystal Films. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 412, 393-400.	0.4	1
476	Scanned conical illumination as a probe of electro-optic retro-reflection. <i>Optics Express</i> , 2019, 27, 18383.	1.7	1
477	Microscopic Structure of Sheared Colloids. , 1981, , 781-786.		1
478	Laser frequency stabilization: combined integrating thermalâ€“proportional servos. <i>Applied Optics</i> , 1976, 15, 1375.	2.1	0
479	Design and synthesis of ferroelectric liquid crystals. 24. Incorporation of the disperse red 1 chromophore into side-by-side dimers for nonlinear optics. <i>Materials Research Society Symposia Proceedings</i> , 1995, 413, 357.	0.1	0
480	<title>Ferroelectric smectic liquid crystals in the bent-core family: alignment for V-shaped analog switching</title>. , 1999, 3800, 21.		0
481	Antiferroelectric Liquid Crystals from Achiral Molecules And A Liquid Conglomerate. <i>Materials Research Society Symposia Proceedings</i> , 1999, 559, 3.	0.1	0
482	<title>New liquid crystal materials enabling revolutionary display devices</title>. , 2002, , .		0
483	Liquid-crystalâ€“solid interface structure at the antiferroelectric-ferroelectric phase transition. <i>Physical Review E</i> , 2002, 66, 061709.	0.8	0
484	Publisherâ€™s Note: Fluctuation Mediated Interaction and Phase Separation of Nanoparticles in a Liquid Crystal Solvent [<i>Phys. Rev. Lett.</i> PRLTAO0031-900791, 085704 (2003)]. <i>Physical Review Letters</i> , 2003, 91, .	2.9	0
485	Observation and Analysis of Smectic Islands In Space (OASIS). , 2011, , .		0
486	Design and synthesis of an achiral ferroelectric smectic liquid crystal. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
487	Polypeptides: Solvent-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
488	Frontispiece: Solvent-free Liquid Crystals and Liquids from DNA. Chemistry - A European Journal, 2015, 21, n/a-n/a.	1.7	0
489	SmAPf phase, its properties and potential dye alignment (Conference Presentation)., 2016, , .		0
490	Host-guest chemistry in the helical nanofilament phase (Conference Presentation)., 2016, , .		0
491	Frustration between two- and three-dimensional smectic ordering leads to a biaxial nematic phase. Soft Matter, 2020, 16, 747-753.	1.2	0
492	Ferroelectric liquid crystal-photo-addressed spatial light modulator. , 1986, , .		0
493	Optical Crystallization Work. Science, 1991, 252, 1049-1049.	6.0	0
494	Nanostructure Fabrication Using Biomolecular Templates. , 1992, , 1183-1191.		0
495	Homeotropic alignment of multiple bent-core liquid crystal phases using a polydimethylsiloxane alignment layer. , 2017, , .		0
496	STUDIES OF LOCAL ORDER IN FLUID STATES BY CROSS CORRELATION INTENSITY FLUCTUATION SPECTROSCOPY. Journal De Physique Colloque, 1985, 46, C3-137-C3-147.	0.2	0
497	On the Existence of bounded Analytic Functions in a lacunary End of a Riemann surface.. Hokkaido Mathematical Journal, 1987, 16, .	0.2	0