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List of Publications by Year
in descending order

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147 papers	4,950 citations	147726 31 h-index	138417 58 g-index

227 all docs	227 docs citations	227 times ranked	3046 citing authors

#	Article	IF	Citations
1	Recent Progresses on Experimental Investigations of Topological and Dissipative Solitons in Liquid Crystals. Crystals, 2022, 12, 94.	1.0	9
2	Modular synthesis of unsymmetrical [1]benzothieno[3,2-b][1]benzothiophene molecular semiconductors for organic transistors. Chemical Science, 2022, 13, 421-429.	3.7	12
3	An Injectable In Situ Depot-Forming Lipidic Lyotropic Liquid Crystal System for Localized Intratumoral Drug Delivery. Molecular Pharmaceutics, 2022, 19, 831-842.	2.3	6
4	Electrically tunable collective motion of dissipative solitons in chiral nematic films. Nature Communications, 2022, 13, 2122.	5.8	7
5	Hybrid molecular/mineral lyotropic liquid crystal system of CTAB and graphene oxide in water. Carbon, 2021, 173, 105-114.	5.4	6
6	Can liquid crystal Blue Phase textures be described by Voronoi tessellations?. Liquid Crystals, 2021, 48, 689-698.	0.9	1
7	Thermotropic liquid crystals with low-dimensional carbon allotropes. Nano Express, 2021, 2, 012002.	1.2	16
8	Electrically Driven Formation and Dynamics of Skyrmionic Solitons in Chiral Nematics. Physical Review Applied, 2021, 15, .	1.5	10
9	Voronoi patterns in liquid crystal textures. Journal of Molecular Liquids, 2021, 335, 116553.	2.3	2
10	Novel Trends in Lyotropic Liquid Crystals. Crystals, 2020, 10, 604.	1.0	46
11	Annihilation dynamics of reverse tilt domains in nematic liquid crystals. Journal of Molecular Liquids, 2020, 313, 113547.	2.3	1
12	Carbon Allotropes as ITO Electrode Replacement Materials in Liquid Crystal Devices. Journal of Carbon Research, 2020, 6, 80.	1.4	5
13	Stabilization of liquid crystal blue phases by carbon nanoparticles of varying dimensionality. Nanoscale Advances, 2020, 2, 2404-2409.	2.2	26
14	Synergistic effect of graphene oxide and zoledronic acid for osteoporosis and cancer treatment. Scientific Reports, 2020, 10, 7827.	1.6	27
15	Dynamic dissipative solitons in nematics with positive anisotropies. Soft Matter, 2020, 16, 5325-5333.	1.2	18
16	Liquid crystalâ€“ferrofluid emulsions. Soft Matter, 2020, 16, 6021-6031.	1.2	10
17	A dynamical model for fractal and compact growth in supercooled systems. Journal of Physics Communications, 2020, 4, 045017.	0.5	1
18	Dynamics of electrically driven solitons in nematic and cholesteric liquid crystals. Communications Physics, 2020, 3, .	2.0	23

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19	From colloids in liquid crystals to colloidal liquid crystals. Liquid Crystals, 2019, 46, 2057-2074.	0.9	58
20	Annihilation dynamics of topological defects induced by microparticles in nematic liquid crystals. Soft Matter, 2019, 15, 8749-8757.	1.2	14
21	Lyotropic Liquid Crystals from Colloidal Suspensions of Graphene Oxide. Crystals, 2019, 9, 455.	1.0	10
22	SNAIA 2018, Smart Nanomaterials: advances, innovation and applications. Liquid Crystals Today, 2019, 28, 46-47.	2.3	0
23	Perspectives in Liquid-Crystal-Aided Nanotechnology and Nanoscience. Applied Sciences (Switzerland), 2019, 9, 2512.	1.3	95
24	B7 Liquid Crystal Filament Growth in Presence of Carbon Nanotubes. ChemPhysChem, 2019, 20, 116-122.	1.0	2
25	Rotation of topological defects by trapped micro-rods in the nematic phase of a liquid crystal. Journal of Molecular Liquids, 2018, 267, 315-321.	2.3	6
26	Report on the annual meeting of the British Liquid Crystal Society (BLCS). Liquid Crystals Today, 2018, 27, 38-40.	2.3	0
27	Science for the small and the tall, the young and the old. Liquid Crystals Today, 2018, 27, 2-6.	2.3	2
28	Nanomaterials in Liquid Crystals. Nanomaterials, 2018, 8, 453.	1.9	26
29	Electric-field-induced transport of microspheres in the isotropic and chiral nematic phase of liquid crystals. Physical Review E, 2017, 95, 022703.	0.8	8
30	Kibbleâ€“Zurek Scaling during Defect Formation in a Nematic Liquid Crystal. ChemPhysChem, 2017, 18, 812-816.	1.0	8
31	Ordering of ferromagnetic nanoparticles in nematic liquid crystals. Soft Matter, 2017, 13, 4636-4643.	1.2	13
32	A comparison between size dependent paraelectric and ferroelectric BaTiO3 nanoparticle doped nematic and ferroelectric liquid crystals. Journal of Applied Physics, 2017, 121, .	1.1	59
33	Confinement effects on lyotropic nematic liquid crystal phases of graphene oxide dispersions. 2D Materials, 2017, 4, 041004.	2.0	34
34	Lyotropic Liquid Crystal Phases from Anisotropic Nanomaterials. Nanomaterials, 2017, 7, 305.	1.9	89
35	Prof Cliff Jones awarded the Katharine Burr Blodgett Medal and Prize. Liquid Crystals Today, 2017, 26, 115-115.	2.3	0
36	Confinement effects on lyotropic nematic liquid crystal phases of graphene oxide dispersions. 2D Materials, 2017, 4, .	2.0	2

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37	Terahertz spectroscopy across liquid crystalline phase transitions. Applied Physics Letters, 2016, 108, 051908.	1.5	9
38	Carbon nanotubes in thermotropic low molar mass liquid crystals. Series in Sof Condensed Matter, 2016, , 603-630.	0.1	3
39	Properties of a Thermotropic Nematic Liquid Crystal Doped with Graphene Oxide. Advanced Optical Materials, 2016, 4, 1541-1548.	3.6	56
40	Dielectric spectroscopy of isotropic liquids and liquid crystal phases with dispersed graphene oxide. Scientific Reports, 2016, 6, 31885.	1.6	46
41	Science of the present meets the life of the past. Liquid Crystals Today, 2016, 25, 10-11.	2.3	1
42	Advertising liquid crystals to the Humboldt Foundation. Liquid Crystals Today, 2015, 24, 96-97.	2.3	0
43	Editorâ€™s interview with Czech and Polish liquid crystal representatives, Alexey Bubnov (A.B.) and Wiktor Piecek (W.P.). Liquid Crystals Today, 2015, 24, 30-33.	2.3	0
44	Liquid crystalline textures and polymer morphologies resulting from electropolymerisation in liquid crystal phases. Journal of Materials Chemistry C, 2015, 3, 8018-8023.	2.7	12
45	Phase transitions and separations in a distorted liquid crystalline mixture. Journal of Chemical Physics, 2015, 143, 064907.	1.2	5
46	Smectic layer instabilities in liquid crystals. Soft Matter, 2015, 11, 819-837.	1.2	17
47	Report on the XXI Czechâ€“Polish seminar. Liquid Crystals Today, 2014, 23, 88-90.	2.3	1
48	A Review of Polymer-Stabilized Ferroelectric Liquid Crystals. Materials, 2014, 7, 3568-3587.	1.3	35
49	Chiral Liquid Crystals: Structures, Phases, Effects. Symmetry, 2014, 6, 444-472.	1.1	161
50	Dispersions of multi-wall carbon nanotubes in ferroelectric liquid crystals. European Physical Journal E, 2014, 37, 7.	0.7	34
51	A Lyotropic Chiral Smectic C Liquid Crystal with Polar Electrooptic Switching. Angewandte Chemie - International Edition, 2013, 52, 8934-8937.	7.2	27
52	Stabilization of the liquid crystalline blue phase by the addition of short-chain polystyrene. Soft Matter, 2013, 9, 4789.	1.2	27
53	Imaging liquid crystal defects. RSC Advances, 2013, 3, 26433.	1.7	20
54	Liquid Crystals arrive back home at their birthplace. Liquid Crystals Today, 2012, 21, 47-48.	2.3	1

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55	Liquid crystals, fractals and art. Liquid Crystals Today, 2012, 21, 54-65.	2.3	7
56	Polymer stabilized liquid crystal devices at THz frequencies. , 2012, , .		0
57	Stabilising liquid crystalline Blue Phases. Soft Matter, 2012, 8, 4355.	1.2	101
58	Anisotropy in the annihilation dynamics of umbilic defects in nematic liquid crystals. Physical Review E, 2012, 85, 021703.	0.8	47
59	Commemorative issue ofLiquid Crystalsfor Alfred Saupe. Liquid Crystals Today, 2011, 20, 126-126.	2.3	0
60	Liquid Crystals do â€˜The Big Bangâ€™. Liquid Crystals Today, 2011, 20, 123-125.	2.3	0
61	Editor's interview. Liquid Crystals Today, 2011, 20, 116-119.	2.3	1
62	The 2010 Royal Society Summer Science Exhibition. Liquid Crystals Today, 2011, 20, 38-40.	2.3	0
63	A special issue ofLiquid Crystalsto commemorate Professor Pierre-Gilles de Gennes. Liquid Crystals Today, 2011, 20, 61-61.	2.3	0
64	A New Twist on Chirality: Formation of Chiral Phases from Achiral Molecules in â€œBananaâ€•Liquid Crystals through Elastic Deformations. Angewandte Chemie - International Edition, 2010, 49, 29-30.	7.2	17
65	Recent developments in polymer stabilised liquid crystals. Polymer Chemistry, 2010, 1, 1153.	1.9	96
66	Chirality enhancement through addition of achiral molecules. Chemical Communications, 2010, 46, 1467.	2.2	10
67	Dielectric spectroscopy of Polymer Stabilised Ferroelectric Liquid Crystals. European Physical Journal E, 2009, 30, 265-74.	0.7	14
68	Electro-optic properties of polymer-stabilized ferroelectric liquid crystals before, during and after photo-polymerization. Journal of Optics, 2009, 11, 024022.	1.5	18
69	Polymer stabilisation of twisted smectic liquid crystal defect states. Soft Matter, 2009, 5, 835-841.	1.2	13
70	Probing the material properties and phase transitions of ferroelectric liquid crystals by determination of the Landau potential. European Physical Journal E, 2008, 25, 385-393.	0.7	5
71	Landau model for polymer-stabilized ferroelectric liquid crystals: Experiment and theory. Physical Review E, 2008, 78, 051703.	0.8	19
72	Elastic coupling in polymer stabilized ferroelectric liquid crystals. Journal Physics D: Applied Physics, 2008, 41, 155422.	1.3	22

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73	Experimental investigations of a chiral smectic glassâ€forming liquid crystal. Liquid Crystals, 2008, 35, 1015-1022.	0.9	11
74	Growth of a SmA* phase in the microconfinement of a polymer network. Liquid Crystals, 2008, 35, 507-512.	0.9	1
75	Reorientation Dynamics of Liquid Crystalâ€“Nanotube Dispersions. Japanese Journal of Applied Physics, 2008, 47, 6390-6393.	0.8	37
76	Growth models of pure supercooled materials. Physical Review E, 2008, 77, 031610.	0.8	3
77	Sudden ridge collapse in the stress relaxation of thin crumpled polymer films. Physical Review E, 2008, 77, 051608.	0.8	9
78	Electromigration of microspheres in ferroelectric smectic liquid crystals. Physical Review E, 2007, 76, 021707.	0.8	13
79	Determination of the Landau potential of chiral enantiomer ferroelectric liquid crystal mixtures. Soft Matter, 2007, 3, 207-213.	1.2	4
80	A bentâ€core dopantâ€induced smectic A* twist stateâ€. Liquid Crystals, 2006, 33, 257-265.	0.9	7
81	Electromigration of microspheres in nematic liquid crystals. Physical Review E, 2006, 73, 011702.	0.8	34
82	Quench depth dependence of liquid crystal nucleus growth: A time resolved statistical analysis. Physica B: Condensed Matter, 2005, 358, 339-347.	1.3	16
83	Quantitative experimental determination of the Landau-potential of chiral enantiomer doped ferroelectric liquid crystals. European Physical Journal E, 2005, 18, 373-381.	0.7	12
84	Experimental determination of the full Landau potential of bent-core doped ferroelectric liquid crystals. Physical Review E, 2005, 72, 041713.	0.8	21
85	Magnetically steered liquid crystal-nanotube switch. Applied Physics Letters, 2005, 87, 233507.	1.5	70
86	Annihilation dynamics of umbilical defects in nematic liquid crystals under applied electric fields. Physical Review E, 2005, 71, 061709.	0.8	49
87	Liquid crystalâ€“carbon nanotube dispersions. Journal of Applied Physics, 2005, 97, 044309.	1.1	370
88	Fractal growth of a conventional calamitic liquid crystal. Physical Review E, 2004, 70, 051701.	0.8	10
89	Growth laws for the phase ordering dynamics of theB1phase of a bent-core liquid crystal. Physical Review E, 2004, 70, 021703.	0.8	16
90	Fractal and Non-Fractal Structureâ€“Property Relationships of Polymer-Stabilized Liquid Crystals. Advanced Functional Materials, 2004, 14, 883-890.	7.8	19

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91	Aligning and Reorienting Carbon Nanotubes with Nematic Liquid Crystals. Advanced Materials, 2004, 16, 865-869.	11.1	329
92	Time resolved statistical analysis of liquid crystal nucleus growth from the isotropic melt. Physical Chemistry Chemical Physics, 2004, 6, 1745.	1.3	31
93	Fractal scaling of surface degradation patterns formed by dielectric breakdown of liquid-crystal Hele-Shaw cells. Europhysics Letters, 2004, 67, 464-469.	0.7	2
94	Relationship Between the Electro-Optic Performance of Polymer-Stabilized Liquid-Crystal Devices and the Fractal Dimension of Their Network Morphology. Advanced Materials, 2003, 15, 152-156.	11.1	21
95	Universal scaling laws for the anisotropic growth of SmA liquid crystal bÃ¢tonnets. Physica B: Condensed Matter, 2003, 325, 281-286.	1.3	27
96	Liquid crystalline fractals: dilatation invariant growth structures in the phase ordering process of 'banana-phases'. Liquid Crystals Today, 2003, 12, 1-10.	2.3	9
97	Fractal dimensionality of polymer networks formed by photopolymerization in a liquid crystal medium. Journal Physics D: Applied Physics, 2002, 35, 2520-2525.	1.3	14
98	Chiral dopant induced twist grain boundary phases. Liquid Crystals, 2001, 28, 165-170.	0.9	16
99	2-dimensional fractally homogeneous distribution of liquid crystalline nuclei in the isotropic melt. Europhysics Letters, 2001, 55, 40-44.	0.7	4
100	Universal growth laws in liquid crystals far from equilibrium. Applied Physics A: Materials Science and Processing, 2001, 72, 307-310.	1.1	34
101	Crystallisation of a bent-core liquid crystal mesogen. Physica B: Condensed Matter, 2001, 304, 51-59.	1.3	6
102	Fractal Growth Patterns in Liquid Crystals. ChemPhysChem, 2001, 2, 59-62.	1.0	18
103	Dielectric breakdown in liquid crystals. Journal Physics D: Applied Physics, 2001, 34, 806-813.	1.3	22
104	Fractal growth of the liquid crystalline B2 phase of a bent-core mesogen. Journal of Physics Condensed Matter, 2001, 13, 1353-1360.	0.7	12
105	A study of the continuous layer rotation dynamics in ferroelectric SMC* liquid crystals. Ferroelectrics, 2001, 256, 103-111.	0.3	2
106	Polymer Network-Stabilized Liquid Crystals. Advanced Materials, 2000, 12, 167-181.	11.1	293
107	The effect of a polymer network on smectic phase structure as probed by polarization measurements on a ferroelectric liquid crystal. European Physical Journal E, 2000, 2, 303-309.	0.7	27
108	Phase ordering kinetics of liquid crystalline twist grain boundary TGBA* phases. Journal of Physics Condensed Matter, 2000, 12, 8035-8040.	0.7	7

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109	Synchrotron x-ray study of the smectic layer directional instability. Physical Review E, 2000, 61, 1593-1598.	0.8	12
110	Domain Growth Scaling at the Isotropic-to-Cholesteric Liquid Crystal Transition. Journal of Physical Chemistry B, 2000, 104, 10642-10646.	1.2	35
111	Horizontal chevron domain formation and smectic layer reorientation in SmC* liquid crystals stabilized by polymer networks. Liquid Crystals, 1999, 26, 1511-1519.	0.9	23
112	Dependence of the SmC* layer reorientation dynamics on enantiomeric excess. Ferroelectrics, 1999, 227, 97-104.	0.3	4
113	Permeation flow associated with the smectic layer directional instability. Ferroelectrics, 1999, 234, 171-182.	0.3	3
114	Smectic-A*â€“smectic-C*transition in a ferroelectric liquid crystal without smectic layer shrinkage. Physical Review E, 1999, 60, 598-602.	0.8	92
115	A review of textures of the TGBA* phase under different anchoring geometries. Liquid Crystals, 1999, 26, 83-95.	0.9	59
116	The role of ionic contamination in the in-plane smectic layer reorientation process. Ferroelectrics, 1998, 211, 165-175.	0.3	12
117	Dynamics of the smectic layer reorientation of ferroelectric liquid crystals. Liquid Crystals, 1998, 24, 775-782.	0.9	20
118	Polymer network structure and electro-optic performance of polymer stabilized cholesteric textures II. The effect of UV curing conditions. Liquid Crystals, 1998, 24, 397-406.	0.9	65
119	Polymer network structure and electro-optic performance of polymer stabilized cholesteric textures I. The influence of curing temperature. Liquid Crystals, 1998, 24, 387-395.	0.9	83
120	Continuous Versus Limited Smectic Liquid Crystal Layer Rotation. Japanese Journal of Applied Physics, 1998, 37, L525-L527.	0.8	9
121	On In-plane Smectic Layer Reorientation in Ferroelectric Liquid Crystal Cells. Japanese Journal of Applied Physics, 1998, 37, L57-L60.	0.8	20
122	Dependence of the smectic C layer reorientation on liquid crystalline polymorphism. Ferroelectrics, 1998, 211, 259-270.	0.3	10
123	The influence of surface treatment on the in-plane smectic layer reorientation. Ferroelectrics, 1998, 215, 11-22.	0.3	9
124	Formation characteristics of horizontal chevron structures in ferroelectric liquid crystal cells. Liquid Crystals, 1998, 24, 769-774.	0.9	16
125	Network morphology of polymer stabilized liquid crystals. Applied Physics Letters, 1997, 71, 2454-2456.	1.5	89
126	Confocal Microscopy Study of Texture Transitions in a Polymer Stabilized Cholesteric Liquid Crystal. Physical Review Letters, 1997, 79, 3443-3446.	2.9	62

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127	Two-stage switching behavior of polymer stabilized cholesteric textures. Journal of Applied Physics, 1997, 81, 3007-3014.	1.1	94
128	Polarization reversal current characteristics of horizontal chevron ferroelectric liquid crystal cells. Ferroelectrics, 1997, 198, 41-47.	0.3	1
129	Pyroelectric measurements on selected compounds with rich liquid crystalline polymorphism. Ferroelectrics, 1997, 193, 1-19.	0.3	5
130	Horizontal chevron configurations in ferroelectric liquid crystal cells induced by high electric fields. Liquid Crystals, 1995, 19, 179-187.	0.9	35
131	New diastereomeric compound with cholesteric twist inversion. Liquid Crystals, 1995, 18, 443-449.	0.9	23
132	Properties of higher-ordered ferroelectric liquid crystal phases of a homologous series. Liquid Crystals, 1994, 17, 243-261.	0.9	27
133	The Origin of the Helical Twist Inversion in Single Component Cholesteric Liquid Crystals. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 1081-1086.	0.7	23
134	Investigations of the structure of a cholesteric phase with a temperature induced helix inversion and of the succeeding S_câ^— phase in thin liquid crystal cells. Liquid Crystals, 1993, 13, 45-55.	0.9	61
135	Surface Anchoring and Elasticity. , 0, , 21-32.		0
136	The Fluid Smectic Phases. , 0, , 91-122.		9
137	Appendix A: Structural Formulas of Some of the Compounds Used in the Texture Studies. , 0, , 155-161.		0
138	Appendix B: Summary of the Most Commonly Observed Natural Textures of Different Liquid Crystal Phases (Numbers Indicate Respective Plates). , 0, , 163-166.		0
139	Polarizing Microscopy. , 0, , 33-42.		3
140	Soft Crystal Phases and Crystallization. , 0, , 141-144.		5
141	Other Liquid Crystal Phases. , 0, , 145-153.		6
142	The Blue Phases. , 0, , 43-50.		3
143	The Nematic and Cholesteric Phases. , 0, , 51-74.		14
144	Twist Grain Boundary Phases. , 0, , 75-90.		0

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145	The SmC* Subphases. , 0, , 123-134.		2
146	The Hexatic Phases. , 0, , 135-139.		1
147	Electrically driven formation and dynamics of Pac-Man solitons in smectic A liquid crystals. Materials Advances, 0, , .	2.6	6