

Ingo Dierking

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

147
papers

4,049
citations

30
h-index

60
g-index

227
ext. papers

4,380
ext. citations

3.7
avg, IF

6.21
L-index

#	Paper	IF	Citations
147	Recent Progresses on Experimental Investigations of Topological and Dissipative Solitons in Liquid Crystals. <i>Crystals</i> , 2022 , 12, 94	2.3	1
146	Modular synthesis of unsymmetrical [1]benzothieno[3,2-][1]benzothiophene molecular semiconductors for organic transistors.. <i>Chemical Science</i> , 2022 , 13, 421-429	9.4	2
145	Electrically tunable collective motion of dissipative solitons in chiral nematic films.. <i>Nature Communications</i> , 2022 , 13, 2122	17.4	1
144	Electrically Driven Formation and Dynamics of Skyrmionic Solitons in Chiral Nematics. <i>Physical Review Applied</i> , 2021 , 15,	4.3	4
143	Hybrid molecular/mineral lyotropic liquid crystal system of CTAB and graphene oxide in water. <i>Carbon</i> , 2021 , 173, 105-114	10.4	2
142	Can liquid crystal Blue Phase textures be described by Voronoi tessellations?. <i>Liquid Crystals</i> , 2021 , 48, 689-698	2.3	0
141	Thermotropic liquid crystals with low-dimensional carbon allotropes. <i>Nano Express</i> , 2021 , 2, 012002	2	8
140	Voronoi patterns in liquid crystal textures. <i>Journal of Molecular Liquids</i> , 2021 , 335, 116553	6	0
139	Carbon Allotropes as ITO Electrode Replacement Materials in Liquid Crystal Devices. <i>Journal of Carbon Research</i> , 2020 , 6, 80	3.3	2
138	Stabilization of liquid crystal blue phases by carbon nanoparticles of varying dimensionality. <i>Nanoscale Advances</i> , 2020 , 2, 2404-2409	5.1	17
137	Synergistic effect of graphene oxide and zoledronic acid for osteoporosis and cancer treatment. <i>Scientific Reports</i> , 2020 , 10, 7827	4.9	12
136	Dynamic dissipative solitons in nematics with positive anisotropies. <i>Soft Matter</i> , 2020 , 16, 5325-5333	3.6	9
135	Liquid crystal-ferrofluid emulsions. <i>Soft Matter</i> , 2020 , 16, 6021-6031	3.6	4
134	A dynamical model for fractal and compact growth in supercooled systems. <i>Journal of Physics Communications</i> , 2020 , 4, 045017	1.2	1
133	Dynamics of electrically driven solitons in nematic and cholesteric liquid crystals. <i>Communications Physics</i> , 2020 , 3,	5.4	12
132	Novel Trends in Lyotropic Liquid Crystals. <i>Crystals</i> , 2020 , 10, 604	2.3	20
131	Annihilation dynamics of reverse tilt domains in nematic liquid crystals. <i>Journal of Molecular Liquids</i> , 2020 , 313, 113547	6	1

130	SNAIA 2018, Smart Nanomaterials: advances, innovation and applications. <i>Liquid Crystals Today</i> , 2019 , 28, 46-47	1.9	
129	Perspectives in Liquid-Crystal-Aided Nanotechnology and Nanoscience. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2512	2.6	47
128	From colloids in liquid crystals to colloidal liquid crystals. <i>Liquid Crystals</i> , 2019 , 46, 2057-2074	2.3	44
127	Annihilation dynamics of topological defects induced by microparticles in nematic liquid crystals. <i>Soft Matter</i> , 2019 , 15, 8749-8757	3.6	10
126	Lyotropic Liquid Crystals from Colloidal Suspensions of Graphene Oxide. <i>Crystals</i> , 2019 , 9, 455	2.3	6
125	B7 Liquid Crystal Filament Growth in Presence of Carbon Nanotubes. <i>ChemPhysChem</i> , 2019 , 20, 116-122	3.2	1
124	Science for the small and the tall, the young and the old. <i>Liquid Crystals Today</i> , 2018 , 27, 2-6	1.9	1
123	Rotation of topological defects by trapped micro-rods in the nematic phase of a liquid crystal. <i>Journal of Molecular Liquids</i> , 2018 , 267, 315-321	6	3
122	Report on the annual meeting of the British Liquid Crystal Society (BLCS). <i>Liquid Crystals Today</i> , 2018 , 27, 38-40	1.9	
121	Electric-field-induced transport of microspheres in the isotropic and chiral nematic phase of liquid crystals. <i>Physical Review E</i> , 2017 , 95, 022703	2.4	7
120	Kibble-Zurek Scaling during Defect Formation in a Nematic Liquid Crystal. <i>ChemPhysChem</i> , 2017 , 18, 812-816	3.2	6
119	Ordering of ferromagnetic nanoparticles in nematic liquid crystals. <i>Soft Matter</i> , 2017 , 13, 4636-4643	3.6	9
118	A comparison between size dependent paraelectric and ferroelectric BaTiO ₃ nanoparticle doped nematic and ferroelectric liquid crystals. <i>Journal of Applied Physics</i> , 2017 , 121, 085105	2.5	42
117	Confinement effects on lyotropic nematic liquid crystal phases of graphene oxide dispersions. <i>2D Materials</i> , 2017 , 4, 041004	5.9	18
116	Lyotropic Liquid Crystal Phases from Anisotropic Nanomaterials. <i>Nanomaterials</i> , 2017 , 7,	5.4	57
115	Confinement effects on lyotropic nematic liquid crystal phases of graphene oxide dispersions. <i>2D Materials</i> , 2017 , 4,	5.9	1
114	Dielectric spectroscopy of isotropic liquids and liquid crystal phases with dispersed graphene oxide. <i>Scientific Reports</i> , 2016 , 6, 31885	4.9	35
113	Science of the present meets the life of the past. <i>Liquid Crystals Today</i> , 2016 , 25, 10-11	1.9	0

112	Terahertz spectroscopy across liquid crystalline phase transitions. <i>Applied Physics Letters</i> , 2016 , 108, 051908	3.4	8
111	Carbon nanotubes in thermotropic low molar mass liquid crystals. <i>Series in Soft Condensed Matter</i> , 2016 , 603-630		3
110	Properties of a Thermotropic Nematic Liquid Crystal Doped with Graphene Oxide. <i>Advanced Optical Materials</i> , 2016 , 4, 1541-1548	8.1	45
109	Liquid crystalline textures and polymer morphologies resulting from electropolymerisation in liquid crystal phases. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8018-8023	7.1	8
108	Phase transitions and separations in a distorted liquid crystalline mixture. <i>Journal of Chemical Physics</i> , 2015 , 143, 064907	3.9	3
107	Smectic layer instabilities in liquid crystals. <i>Soft Matter</i> , 2015 , 11, 819-37	3.6	10
106	Characterisation 2015 , 229-284		
105	Advertising liquid crystals to the Humboldt Foundation. <i>Liquid Crystals Today</i> , 2015 , 24, 96-97	1.9	
104	Editorial interview with Czech and Polish liquid crystal representatives, Alexey Bubnov (A.B.) and Wiktor Piecek (W.P.). <i>Liquid Crystals Today</i> , 2015 , 24, 30-33	1.9	
103	Dispersions of multi-wall carbon nanotubes in ferroelectric liquid crystals. <i>European Physical Journal E</i> , 2014 , 37, 7	1.5	28
102	Report on the XXI Czech-Polish seminar. <i>Liquid Crystals Today</i> , 2014 , 23, 88-90	1.9	1
101	A Review of Polymer-Stabilized Ferroelectric Liquid Crystals. <i>Materials</i> , 2014 , 7, 3568-3587	3.5	21
100	Chiral Liquid Crystals: Structures, Phases, Effects. <i>Symmetry</i> , 2014 , 6, 444-472	2.7	118
99	A lyotropic chiral smectic C liquid crystal with polar electrooptic switching. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8934-7	16.4	21
98	Stabilization of the liquid crystalline blue phase by the addition of short-chain polystyrene. <i>Soft Matter</i> , 2013 , 9, 4789	3.6	22
97	Imaging liquid crystal defects. <i>RSC Advances</i> , 2013 , 3, 26433	3.7	17
96	Ein lyotroper chiraler smektischer C-Flüssigkristall mit polarem elektrooptischem Schaltverhalten. <i>Angewandte Chemie</i> , 2013 , 125, 9102-9105	3.6	4
95	Liquid crystals, fractals and art. <i>Liquid Crystals Today</i> , 2012 , 21, 54-65	1.9	2

94	Stabilising liquid crystalline Blue Phases. <i>Soft Matter</i> , 2012 , 8, 4355	3.6	85
93	Anisotropy in the annihilation dynamics of umbilic defects in nematic liquid crystals. <i>Physical Review E</i> , 2012 , 85, 021703	2.4	41
92	Liquid Crystals arrive back home at their birthplace. <i>Liquid Crystals Today</i> , 2012 , 21, 47-48	1.9	
91	Commemorative issue of Liquid Crystals for Alfred Saupe. <i>Liquid Crystals Today</i> , 2011 , 20, 126-126	1.9	
90	Liquid Crystals do "The Big Bang" <i>Liquid Crystals Today</i> , 2011 , 20, 123-125	1.9	
89	Editor's interview. <i>Liquid Crystals Today</i> , 2011 , 20, 116-119	1.9	
88	The 2010 Royal Society Summer Science Exhibition. <i>Liquid Crystals Today</i> , 2011 , 20, 38-40	1.9	
87	A special issue of Liquid Crystals to commemorate Professor Pierre-Gilles de Gennes. <i>Liquid Crystals Today</i> , 2011 , 20, 61-61	1.9	
86	Recent developments in polymer stabilised liquid crystals. <i>Polymer Chemistry</i> , 2010 , 1, 1153	4.9	72
85	Chirality enhancement through addition of achiral molecules. <i>Chemical Communications</i> , 2010 , 46, 1467-9.8	3.8	9
84	Einer neuer Dreh bei der Chiralität: chirale Phasen aus achiralen Molekülen durch elastische Deformationen in "Bananen" Flüssigkristallen. <i>Angewandte Chemie</i> , 2010 , 122, 30-32	3.6	3
83	A new twist on chirality: formation of chiral phases from achiral molecules in "banana" liquid crystals through elastic deformations. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 29-30	16.4	13
82	Dielectric spectroscopy of Polymer Stabilised Ferroelectric Liquid Crystals. <i>European Physical Journal E</i> , 2009 , 30, 265-74	1.5	12
81	Electro-optic properties of polymer-stabilized ferroelectric liquid crystals before, during and after photo-polymerization. <i>Journal of Optics</i> , 2009 , 11, 024022		18
80	Polymer stabilisation of twisted smectic liquid crystal defect states. <i>Soft Matter</i> , 2009 , 5, 835-841	3.6	10
79	Landau model for polymer-stabilized ferroelectric liquid crystals: experiment and theory. <i>Physical Review E</i> , 2008 , 78, 051703	2.4	17
78	Elastic coupling in polymer stabilized ferroelectric liquid crystals. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 155422	3	21
77	Experimental investigations of a chiral smectic glass-forming liquid crystal. <i>Liquid Crystals</i> , 2008 , 35, 1015-1022	3.0	26

76	Growth of a SmA* phase in the microconfinement of a polymer network. <i>Liquid Crystals</i> , 2008 , 35, 507-512	2.3	1
75	Reorientation Dynamics of Liquid Crystal Nanotube Dispersions. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 6390-6393	1.4	33
74	Growth models of pure supercooled materials. <i>Physical Review E</i> , 2008 , 77, 031610	2.4	3
73	Sudden ridge collapse in the stress relaxation of thin crumpled polymer films. <i>Physical Review E</i> , 2008 , 77, 051608	2.4	8
72	Probing the material properties and phase transitions of ferroelectric liquid crystals by determination of the Landau potential. <i>European Physical Journal E</i> , 2008 , 25, 385-93	1.5	5
71	Determination of the Landau potential of chiral enantiomer ferroelectric liquid crystal mixtures. <i>Soft Matter</i> , 2007 , 3, 207-213	3.6	4
70	Electromigration of microspheres in ferroelectric smectic liquid crystals. <i>Physical Review E</i> , 2007 , 76, 021707	2.4	11
69	Electromigration of microspheres in nematic liquid crystals. <i>Physical Review E</i> , 2006 , 73, 011702	2.4	30
68	A bent-core dopant-induced smectic A* twist state. <i>Liquid Crystals</i> , 2006 , 33, 257-265	2.3	7
67	Annihilation dynamics of umbilical defects in nematic liquid crystals under applied electric fields. <i>Physical Review E</i> , 2005 , 71, 061709	2.4	40
66	Liquid crystal-carbon nanotube dispersions. <i>Journal of Applied Physics</i> , 2005 , 97, 044309	2.5	335
65	Quench depth dependence of liquid crystal nucleus growth: A time resolved statistical analysis. <i>Physica B: Condensed Matter</i> , 2005 , 358, 339-347	2.8	15
64	Quantitative experimental determination of the Landau-potential of chiral enantiomer doped ferroelectric liquid crystals. <i>European Physical Journal E</i> , 2005 , 18, 373-81	1.5	12
63	Experimental determination of the full Landau potential of bent-core doped ferroelectric liquid crystals. <i>Physical Review E</i> , 2005 , 72, 041713	2.4	21
62	Magnetically steered liquid crystal-nanotube switch. <i>Applied Physics Letters</i> , 2005 , 87, 233507	3.4	66
61	Fractal growth of a conventional calamitic liquid crystal. <i>Physical Review E</i> , 2004 , 70, 051701	2.4	10
60	Growth laws for the phase ordering dynamics of the B1 phase of a bent-core liquid crystal. <i>Physical Review E</i> , 2004 , 70, 021703	2.4	13
59	Fractal and Non-Fractal Structure-Property Relationships of Polymer-Stabilized Liquid Crystals. <i>Advanced Functional Materials</i> , 2004 , 14, 883-890	15.6	15

58	Aligning and Reorienting Carbon Nanotubes with Nematic Liquid Crystals. <i>Advanced Materials</i> , 2004 , 16, 865-869	24	295
57	Time resolved statistical analysis of liquid crystal nucleus growth from the isotropic melt. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 1745	3.6	31
56	Fractal scaling of surface degradation patterns formed by dielectric breakdown of liquid-crystal Hele-Shaw cells. <i>Europhysics Letters</i> , 2004 , 67, 464-469	1.6	2
55	Relationship Between the Electro-Optic Performance of Polymer-Stabilized Liquid-Crystal Devices and the Fractal Dimension of Their Network Morphology. <i>Advanced Materials</i> , 2003 , 15, 152-156	24	14
54	Universal scaling laws for the anisotropic growth of SmA liquid crystal bñonnets. <i>Physica B: Condensed Matter</i> , 2003 , 325, 281-286	2.8	25
53	Liquid crystalline fractals: dilatation invariant growth structures in the phase ordering process of 'banana-phases'. <i>Liquid Crystals Today</i> , 2003 , 12, 1-10	1.9	9
52	2003 ,		767
51	Fractal dimensionality of polymer networks formed by photopolymerization in a liquid crystal medium. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 2520-2525	3	11
50	2-dimensional fractally homogeneous distribution of liquid crystalline nuclei in the isotropic melt. <i>Europhysics Letters</i> , 2001 , 55, 40-44	1.6	3
49	Universal growth laws in liquid crystals far from equilibrium. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 72, 307-310	2.6	30
48	Crystallisation of a bent-core liquid crystal mesogen. <i>Physica B: Condensed Matter</i> , 2001 , 304, 51-59	2.8	6
47	Fractal growth patterns in liquid crystals. <i>ChemPhysChem</i> , 2001 , 2, 59-62	3.2	18
46	Dielectric breakdown in liquid crystals. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 806-813	3	22
45	Fractal growth of the liquid crystalline B2 phase of a bent-core mesogen. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 1353-1360	1.8	11
44	A study of the continuous layer rotation dynamics in ferroelectric SMC* liquid crystals. <i>Ferroelectrics</i> , 2001 , 256, 103-111	0.6	1
43	Chiral dopant induced twist grain boundary phases. <i>Liquid Crystals</i> , 2001 , 28, 165-170	2.3	16
42	Polymer NetworkâStabilized Liquid Crystals. <i>Advanced Materials</i> , 2000 , 12, 167-181	24	244
41	The effect of a polymer network on smectic phase structure as probed by polarization measurements on a ferroelectric liquid crystal. <i>European Physical Journal E</i> , 2000 , 2, 303-309	1.5	25

40	Phase ordering kinetics of liquid crystalline twist grain boundary TGBA* phases. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 8035-8040	1.8	6
39	Synchrotron x-ray study of the smectic layer directional instability. <i>Physical Review E</i> , 2000 , 61, 1593-8	2.4	11
38	Domain Growth Scaling at the Isotropic-to-Cholesteric Liquid Crystal Transition. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 10642-10646	3.4	32
37	Horizontal chevron domain formation and smectic layer reorientation in SmC* liquid crystals stabilized by polymer networks. <i>Liquid Crystals</i> , 1999 , 26, 1511-1519	2.3	20
36	Dependence of the SmC* layer reorientation dynamics on enantiomeric excess. <i>Ferroelectrics</i> , 1999 , 227, 97-104	0.6	4
35	Permeation flow associated with the smectic layer directional instability. <i>Ferroelectrics</i> , 1999 , 234, 171-182		3
34	Smectic-A*-smectic-C* transition in a ferroelectric liquid crystal without smectic layer shrinkage. <i>Physical Review E</i> , 1999 , 60, 598-602	2.4	90
33	A review of textures of the TGBA* phase under different anchoring geometries. <i>Liquid Crystals</i> , 1999 , 26, 83-95	2.3	53
32	The role of ionic contamination in the in-plane smectic layer reorientation process. <i>Ferroelectrics</i> , 1998 , 211, 165-175	0.6	12
31	Dynamics of the smectic layer reorientation of ferroelectric liquid crystals. <i>Liquid Crystals</i> , 1998 , 24, 775-782		18
30	Polymer network structure and electro-optic performance of polymer stabilized cholesteric textures II. The effect of UV curing conditions. <i>Liquid Crystals</i> , 1998 , 24, 397-406	2.3	54
29	Polymer network structure and electro-optic performance of polymer stabilized cholesteric textures I. The influence of curing temperature. <i>Liquid Crystals</i> , 1998 , 24, 387-395	2.3	72
28	Continuous Versus Limited Smectic Liquid Crystal Layer Rotation. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, L525-L527	1.4	9
27	On In-plane Smectic Layer Reorientation in Ferroelectric Liquid Crystal Cells. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, L57-L60	1.4	19
26	Dependence of the smectic C layer reorientation on liquid crystalline polymorphism. <i>Ferroelectrics</i> , 1998 , 211, 259-270	0.6	10
25	The influence of surface treatment on the in-plane smectic layer reorientation. <i>Ferroelectrics</i> , 1998 , 215, 11-22	0.6	7
24	Formation characteristics of horizontal chevron structures in ferroelectric liquid crystal cells. <i>Liquid Crystals</i> , 1998 , 24, 769-774	2.3	13
23	Network morphology of polymer stabilized liquid crystals. <i>Applied Physics Letters</i> , 1997 , 71, 2454-2456	3.4	77

22	Confocal Microscopy Study of Texture Transitions in a Polymer Stabilized Cholesteric Liquid Crystal. <i>Physical Review Letters</i> , 1997 , 79, 3443-3446	7.4	56
21	Two-stage switching behavior of polymer stabilized cholesteric textures. <i>Journal of Applied Physics</i> , 1997 , 81, 3007-3014	2.5	79
20	Polarization reversal current characteristics of horizontal chevron ferroelectric liquid crystal cells. <i>Ferroelectrics</i> , 1997 , 198, 41-47	0.6	1
19	Pyroelectric measurements on selected compounds with rich liquid crystalline polymorphism. <i>Ferroelectrics</i> , 1997 , 193, 1-19	0.6	5
18	Horizontal chevron configurations in ferroelectric liquid crystal cells induced by high electric fields. <i>Liquid Crystals</i> , 1995 , 19, 179-187	2.3	33
17	New diastereomeric compound with cholesteric twist inversion. <i>Liquid Crystals</i> , 1995 , 18, 443-449	2.3	22
16	Properties of higher-ordered ferroelectric liquid crystal phases of a homologous series. <i>Liquid Crystals</i> , 1994 , 17, 243-261	2.3	24
15	The Origin of the Helical Twist Inversion in Single Component Cholesteric Liquid Crystals. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1994 , 49, 1081-1086	1.4	21
14	Investigations of the structure of a cholesteric phase with a temperature induced helix inversion and of the succeeding Sc* phase in thin liquid crystal cells. <i>Liquid Crystals</i> , 1993 , 13, 45-55	2.3	55
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6

2 Appendix A: Structural Formulas of Some of the Compounds Used in the Texture Studies 155-161

1 Electrically driven formation and dynamics of swallow-tail solitons in smectic A liquid crystals.
Materials Advances,

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