

# Ingo Dierking

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227  
ext. papers

4,380  
ext. citations

3.7  
avg, IF

6.21  
L-index

#	Paper	IF	Citations
147	<b>2003,</b>		767
146	Liquid crystal-carbon nanotube dispersions. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 044309	2.5	335
145	Aligning and Reorienting Carbon Nanotubes with Nematic Liquid Crystals. <i>Advanced Materials</i> , <b>2004</b> , 16, 865-869	24	295
144	Polymer Network-stabilized Liquid Crystals. <i>Advanced Materials</i> , <b>2000</b> , 12, 167-181	24	244
143	Chiral Liquid Crystals: Structures, Phases, Effects. <i>Symmetry</i> , <b>2014</b> , 6, 444-472	2.7	118
142	Smectic-A*-smectic-C* transition in a ferroelectric liquid crystal without smectic layer shrinkage. <i>Physical Review E</i> , <b>1999</b> , 60, 598-602	2.4	90
141	Stabilising liquid crystalline Blue Phases. <i>Soft Matter</i> , <b>2012</b> , 8, 4355	3.6	85
140	Two-stage switching behavior of polymer stabilized cholesteric textures. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 3007-3014	2.5	79
139	Network morphology of polymer stabilized liquid crystals. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 2454-2456	3.4	77
138	Recent developments in polymer stabilised liquid crystals. <i>Polymer Chemistry</i> , <b>2010</b> , 1, 1153	4.9	72
137	Polymer network structure and electro-optic performance of polymer stabilized cholesteric textures I. The influence of curing temperature. <i>Liquid Crystals</i> , <b>1998</b> , 24, 387-395	2.3	72
136	Magnetically steered liquid crystal-nanotube switch. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 233507	3.4	66
135	Lyotropic Liquid Crystal Phases from Anisotropic Nanomaterials. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	57
134	Confocal Microscopy Study of Texture Transitions in a Polymer Stabilized Cholesteric Liquid Crystal. <i>Physical Review Letters</i> , <b>1997</b> , 79, 3443-3446	7.4	56
133	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> , <b>1993</b> , 13, 45-55	2.3	55
132	Polymer network structure and electro-optic performance of polymer stabilized cholesteric textures II. The effect of UV curing conditions. <i>Liquid Crystals</i> , <b>1998</b> , 24, 397-406	2.3	54
131	A review of textures of the TGBA* phase under different anchoring geometries. <i>Liquid Crystals</i> , <b>1999</b> , 26, 83-95	2.3	53

130	Perspectives in Liquid-Crystal-Aided Nanotechnology and Nanoscience. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2512	2.6	47
129	Properties of a Thermotropic Nematic Liquid Crystal Doped with Graphene Oxide. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 1541-1548	8.1	45
128	From colloids in liquid crystals to colloidal liquid crystals. <i>Liquid Crystals</i> , <b>2019</b> , 46, 2057-2074	2.3	44
127	A comparison between size dependent paraelectric and ferroelectric BaTiO <sub>3</sub> nanoparticle doped nematic and ferroelectric liquid crystals. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 085105	2.5	42
126	Anisotropy in the annihilation dynamics of umbilic defects in nematic liquid crystals. <i>Physical Review E</i> , <b>2012</b> , 85, 021703	2.4	41
125	Annihilation dynamics of umbilical defects in nematic liquid crystals under applied electric fields. <i>Physical Review E</i> , <b>2005</b> , 71, 061709	2.4	40
124	Dielectric spectroscopy of isotropic liquids and liquid crystal phases with dispersed graphene oxide. <i>Scientific Reports</i> , <b>2016</b> , 6, 31885	4.9	35
123	Reorientation Dynamics of Liquid Crystal Nanotube Dispersions. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 6390-6393	1.4	33
122	Horizontal chevron configurations in ferroelectric liquid crystal cells induced by high electric fields. <i>Liquid Crystals</i> , <b>1995</b> , 19, 179-187	2.3	33
121	Domain Growth Scaling at the Isotropic-to-Cholesteric Liquid Crystal Transition. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 10642-10646	3.4	32
120	Time resolved statistical analysis of liquid crystal nucleus growth from the isotropic melt. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 1745	3.6	31
119	Electromigration of microspheres in nematic liquid crystals. <i>Physical Review E</i> , <b>2006</b> , 73, 011702	2.4	30
118	Universal growth laws in liquid crystals far from equilibrium. <i>Applied Physics A: Materials Science and Processing</i> , <b>2001</b> , 72, 307-310	2.6	30
117	Dispersions of multi-wall carbon nanotubes in ferroelectric liquid crystals. <i>European Physical Journal E</i> , <b>2014</b> , 37, 7	1.5	28
116	Universal scaling laws for the anisotropic growth of SmA liquid crystal beñonnets. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 325, 281-286	2.8	25
115	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> , <b>2000</b> , 2, 303-309	1.5	25
114	Properties of higher-ordered ferroelectric liquid crystal phases of a homologous series. <i>Liquid Crystals</i> , <b>1994</b> , 17, 243-261	2.3	24
113	Stabilization of the liquid crystalline blue phase by the addition of short-chain polystyrene. <i>Soft Matter</i> , <b>2013</b> , 9, 4789	3.6	22

112	Dielectric breakdown in liquid crystals. <i>Journal Physics D: Applied Physics</i> , <b>2001</b> , 34, 806-813	3	22
111	New diastereomeric compound with cholesteric twist inversion. <i>Liquid Crystals</i> , <b>1995</b> , 18, 443-449	2.3	22
110	A lyotropic chiral smectic C liquid crystal with polar electrooptic switching. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8934-7	16.4	21
109	A Review of Polymer-Stabilized Ferroelectric Liquid Crystals. <i>Materials</i> , <b>2014</b> , 7, 3568-3587	3.5	21
108	Elastic coupling in polymer stabilized ferroelectric liquid crystals. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 155422	3	21
107	Experimental determination of the full Landau potential of bent-core doped ferroelectric liquid crystals. <i>Physical Review E</i> , <b>2005</b> , 72, 041713	2.4	21
106	The Origin of the Helical Twist Inversion in Single Component Cholesteric Liquid Crystals. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>1994</b> , 49, 1081-1086	1.4	21
105	Horizontal chevron domain formation and smectic layer reorientation in SmC* liquid crystals stabilized by polymer networks. <i>Liquid Crystals</i> , <b>1999</b> , 26, 1511-1519	2.3	20
104	Novel Trends in Lyotropic Liquid Crystals. <i>Crystals</i> , <b>2020</b> , 10, 604	2.3	20
103	On In-plane Smectic Layer Reorientation in Ferroelectric Liquid Crystal Cells. <i>Japanese Journal of Applied Physics</i> , <b>1998</b> , 37, L57-L60	1.4	19
102	Confinement effects on lyotropic nematic liquid crystal phases of graphene oxide dispersions. <i>2D Materials</i> , <b>2017</b> , 4, 041004	5.9	18
101	Electro-optic properties of polymer-stabilized ferroelectric liquid crystals before, during and after photo-polymerization. <i>Journal of Optics</i> , <b>2009</b> , 11, 024022		18
100	Fractal growth patterns in liquid crystals. <i>ChemPhysChem</i> , <b>2001</b> , 2, 59-62	3.2	18
99	Dynamics of the smectic layer reorientation of ferroelectric liquid crystals. <i>Liquid Crystals</i> , <b>1998</b> , 24, 775-782		18
98	Stabilization of liquid crystal blue phases by carbon nanoparticles of varying dimensionality. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 2404-2409	5.1	17
97	Imaging liquid crystal defects. <i>RSC Advances</i> , <b>2013</b> , 3, 26433	3.7	17
96	Landau model for polymer-stabilized ferroelectric liquid crystals: experiment and theory. <i>Physical Review E</i> , <b>2008</b> , 78, 051703	2.4	17
95	Chiral dopant induced twist grain boundary phases. <i>Liquid Crystals</i> , <b>2001</b> , 28, 165-170	2.3	16

94	Fractal and Non-Fractal Structure-Property Relationships of Polymer-Stabilized Liquid Crystals. <i>Advanced Functional Materials</i> , <b>2004</b> , 14, 883-890	15.6	15
93	Quench depth dependence of liquid crystal nucleus growth: A time resolved statistical analysis. <i>Physica B: Condensed Matter</i> , <b>2005</b> , 358, 339-347	2.8	15
92	Relationship Between the Electro-Optic Performance of Polymer-Stabilized Liquid-Crystal Devices and the Fractal Dimension of Their Network Morphology. <i>Advanced Materials</i> , <b>2003</b> , 15, 152-156	24	14
91	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> , <b>2010</b> , 49, 29-30	16.4	13
90	Growth laws for the phase ordering dynamics of the B1 phase of a bent-core liquid crystal. <i>Physical Review E</i> , <b>2004</b> , 70, 021703	2.4	13
89	Formation characteristics of horizontal chevron structures in ferroelectric liquid crystal cells. <i>Liquid Crystals</i> , <b>1998</b> , 24, 769-774	2.3	13
88	Synergistic effect of graphene oxide and zoledronic acid for osteoporosis and cancer treatment. <i>Scientific Reports</i> , <b>2020</b> , 10, 7827	4.9	12
87	Dielectric spectroscopy of Polymer Stabilised Ferroelectric Liquid Crystals. <i>European Physical Journal E</i> , <b>2009</b> , 30, 265-74	1.5	12
86	The role of ionic contamination in the in-plane smectic layer reorientation process. <i>Ferroelectrics</i> , <b>1998</b> , 211, 165-175	0.6	12
85	Quantitative experimental determination of the Landau-potential of chiral enantiomer doped ferroelectric liquid crystals. <i>European Physical Journal E</i> , <b>2005</b> , 18, 373-81	1.5	12
84	Dynamics of electrically driven solitons in nematic and cholesteric liquid crystals. <i>Communications Physics</i> , <b>2020</b> , 3,	5.4	12
83	Electromigration of microspheres in ferroelectric smectic liquid crystals. <i>Physical Review E</i> , <b>2007</b> , 76, 021707	2.4	11
82	Fractal growth of the liquid crystalline B2 phase of a bent-core mesogen. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 1353-1360	1.8	11
81	Fractal dimensionality of polymer networks formed by photopolymerization in a liquid crystal medium. <i>Journal Physics D: Applied Physics</i> , <b>2002</b> , 35, 2520-2525	3	11
80	Synchrotron x-ray study of the smectic layer directional instability. <i>Physical Review E</i> , <b>2000</b> , 61, 1593-8	2.4	11
79	Smectic layer instabilities in liquid crystals. <i>Soft Matter</i> , <b>2015</b> , 11, 819-37	3.6	10
78	Annihilation dynamics of topological defects induced by microparticles in nematic liquid crystals. <i>Soft Matter</i> , <b>2019</b> , 15, 8749-8757	3.6	10
77	Polymer stabilisation of twisted smectic liquid crystal defect states. <i>Soft Matter</i> , <b>2009</b> , 5, 835-841	3.6	10

76	Fractal growth of a conventional calamitic liquid crystal. <i>Physical Review E</i> , <b>2004</b> , 70, 051701	2.4	10
75	Dependence of the smectic C layer reorientation on liquid crystalline polymorphism. <i>Ferroelectrics</i> , <b>1998</b> , 211, 259-270	0.6	10
74	Ordering of ferromagnetic nanoparticles in nematic liquid crystals. <i>Soft Matter</i> , <b>2017</b> , 13, 4636-4643	3.6	9
73	Dynamic dissipative solitons in nematics with positive anisotropies. <i>Soft Matter</i> , <b>2020</b> , 16, 5325-5333	3.6	9
72	Chirality enhancement through addition of achiral molecules. <i>Chemical Communications</i> , <b>2010</b> , 46, 1467-9.8	3.8	9
71	The Nematic and Cholesteric Phases 51-74		9
70	Liquid crystalline fractals: dilatation invariant growth structures in the phase ordering process of 'banana-phases'. <i>Liquid Crystals Today</i> , <b>2003</b> , 12, 1-10	1.9	9
69	Continuous Versus Limited Smectic Liquid Crystal Layer Rotation. <i>Japanese Journal of Applied Physics</i> , <b>1998</b> , 37, L525-L527	1.4	9
68	Liquid crystalline textures and polymer morphologies resulting from electropolymerisation in liquid crystal phases. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8018-8023	7.1	8
67	Sudden ridge collapse in the stress relaxation of thin crumpled polymer films. <i>Physical Review E</i> , <b>2008</b> , 77, 051608	2.4	8
66	Terahertz spectroscopy across liquid crystalline phase transitions. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 051908	3.4	8
65	Thermotropic liquid crystals with low-dimensional carbon allotropes. <i>Nano Express</i> , <b>2021</b> , 2, 012002	2	8
64	Electric-field-induced transport of microspheres in the isotropic and chiral nematic phase of liquid crystals. <i>Physical Review E</i> , <b>2017</b> , 95, 022703	2.4	7
63	A bent-core dopant-induced smectic A* twist state. <i>Liquid Crystals</i> , <b>2006</b> , 33, 257-265	2.3	7
62	The influence of surface treatment on the in-plane smectic layer reorientation. <i>Ferroelectrics</i> , <b>1998</b> , 215, 11-22	0.6	7
61	Kibble-Zurek Scaling during Defect Formation in a Nematic Liquid Crystal. <i>ChemPhysChem</i> , <b>2017</b> , 18, 812-816	3.2	6
60	Lyotropic Liquid Crystals from Colloidal Suspensions of Graphene Oxide. <i>Crystals</i> , <b>2019</b> , 9, 455	2.3	6
59	Experimental investigations of a chiral smectic glass-forming liquid crystal. <i>Liquid Crystals</i> , <b>2008</b> , 35, 1015-1022	3.0	6

58	Other Liquid Crystal Phases145-153		6
57	The Fluid Smectic Phases91-122		6
56	Crystallisation of a bent-core liquid crystal mesogen. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 304, 51-59	2.8	6
55	Phase ordering kinetics of liquid crystalline twist grain boundary TGBA* phases. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 8035-8040	1.8	6
54	Pyroelectric measurements on selected compounds with rich liquid crystalline polymorphism. <i>Ferroelectrics</i> , <b>1997</b> , 193, 1-19	0.6	5
53	Probing the material properties and phase transitions of ferroelectric liquid crystals by determination of the Landau potential. <i>European Physical Journal E</i> , <b>2008</b> , 25, 385-93	1.5	5
52	Soft Crystal Phases and Crystallization141-144		5
51	Liquid crystal-ferrofluid emulsions. <i>Soft Matter</i> , <b>2020</b> , 16, 6021-6031	3.6	4
50	Ein lyotroper chiraler smektischer C-Flüssigkristall mit polarem elektrooptischem Schaltverhalten. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 9102-9105	3.6	4
49	Determination of the Landau potential of chiral enantiomer ferroelectric liquid crystal mixtures. <i>Soft Matter</i> , <b>2007</b> , 3, 207-213	3.6	4
48	Dependence of the SmC* layer reorientation dynamics on enantiomeric excess. <i>Ferroelectrics</i> , <b>1999</b> , 227, 97-104	0.6	4
47	Electrically Driven Formation and Dynamics of Skyrmionic Solitons in Chiral Nematics. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	4
46	Phase transitions and separations in a distorted liquid crystalline mixture. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 064907	3.9	3
45	Einer neuer Dreh bei der Chiralität: chirale Phasen aus achiralen Molekülen durch elastische Deformationen in "Bananen"-Flüssigkristallen. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 30-32	3.6	3
44	Growth models of pure supercooled materials. <i>Physical Review E</i> , <b>2008</b> , 77, 031610	2.4	3
43	Polarizing Microscopy33-42		3
42	The Blue Phases43-50		3
41	2-dimensional fractally homogeneous distribution of liquid crystalline nuclei in the isotropic melt. <i>Europhysics Letters</i> , <b>2001</b> , 55, 40-44	1.6	3

40	Permeation flow associated with the smectic layer directional instability. <i>Ferroelectrics</i> , <b>1999</b> , 234, 171-182	3
39	Carbon nanotubes in thermotropic low molar mass liquid crystals. <i>Series in Soft Condensed Matter</i> , <b>2016</b> , 603-630	3
38	Electrically driven formation and dynamics of swallow-tail solitons in smectic A liquid crystals. <i>Materials Advances</i> ,	3:3 3
37	Rotation of topological defects by trapped micro-rods in the nematic phase of a liquid crystal. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 267, 315-321	6 3
36	Carbon Allotropes as ITO Electrode Replacement Materials in Liquid Crystal Devices. <i>Journal of Carbon Research</i> , <b>2020</b> , 6, 80	3:3 2
35	Liquid crystals, fractals and art. <i>Liquid Crystals Today</i> , <b>2012</b> , 21, 54-65	1:9 2
34	Fractal scaling of surface degradation patterns formed by dielectric breakdown of liquid-crystal Hele-Shaw cells. <i>Europhysics Letters</i> , <b>2004</b> , 67, 464-469	1:6 2
33	Modular synthesis of unsymmetrical [1]benzothieno[3,2-][1]benzothiophene molecular semiconductors for organic transistors.. <i>Chemical Science</i> , <b>2022</b> , 13, 421-429	9:4 2
32	Hybrid molecular/mineral lyotropic liquid crystal system of CTAB and graphene oxide in water. <i>Carbon</i> , <b>2021</b> , 173, 105-114	10:4 2
31	A dynamical model for fractal and compact growth in supercooled systems. <i>Journal of Physics Communications</i> , <b>2020</b> , 4, 045017	1:2 1
30	Science for the small and the tall, the young and the old. <i>Liquid Crystals Today</i> , <b>2018</b> , 27, 2-6	1:9 1
29	Report on the XXI Czech-Polish seminar. <i>Liquid Crystals Today</i> , <b>2014</b> , 23, 88-90	1:9 1
28	Polarization reversal current characteristics of horizontal chevron ferroelectric liquid crystal cells. <i>Ferroelectrics</i> , <b>1997</b> , 198, 41-47	0:6 1
27	Growth of a SmA* phase in the microconfinement of a polymer network. <i>Liquid Crystals</i> , <b>2008</b> , 35, 507-512	3 1
26	The Hexatic Phases	135-139 1
25	A study of the continuous layer rotation dynamics in ferroelectric SMC* liquid crystals. <i>Ferroelectrics</i> , <b>2001</b> , 256, 103-111	0:6 1
24	Recent Progresses on Experimental Investigations of Topological and Dissipative Solitons in Liquid Crystals. <i>Crystals</i> , <b>2022</b> , 12, 94	2:3 1
23	Confinement effects on lyotropic nematic liquid crystal phases of graphene oxide dispersions. <i>2D Materials</i> , <b>2017</b> , 4,	5:9 1



22	Annihilation dynamics of reverse tilt domains in nematic liquid crystals. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 313, 113547	6	1
21	B7 Liquid Crystal Filament Growth in Presence of Carbon Nanotubes. <i>ChemPhysChem</i> , <b>2019</b> , 20, 116-122	3,2	1
20	Electrically tunable collective motion of dissipative solitons in chiral nematic films.. <i>Nature Communications</i> , <b>2022</b> , 13, 2122	17.4	1
19	Science of the present meets the life of the past. <i>Liquid Crystals Today</i> , <b>2016</b> , 25, 10-11	1.9	0
18	Can liquid crystal Blue Phase textures be described by Voronoi tessellations?. <i>Liquid Crystals</i> , <b>2021</b> , 48, 689-698	2.3	0
17	Voronoi patterns in liquid crystal textures. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 335, 116553	6	0
16	SNAIA 2018, Smart Nanomaterials: advances, innovation and applications. <i>Liquid Crystals Today</i> , <b>2019</b> , 28, 46-47	1.9	
15	Characterisation <b>2015</b> , 229-284		
14	Advertising liquid crystals to the Humboldt Foundation. <i>Liquid Crystals Today</i> , <b>2015</b> , 24, 96-97	1.9	
13	Editor's interview with Czech and Polish liquid crystal representatives, Alexey Bubnov (A.B.) and Wiktor Piecek (W.P.). <i>Liquid Crystals Today</i> , <b>2015</b> , 24, 30-33	1.9	
12	Commemorative issue of Liquid Crystals for Alfred Saupe. <i>Liquid Crystals Today</i> , <b>2011</b> , 20, 126-126	1.9	
11	Liquid Crystals do "the Big Bang" <i>Liquid Crystals Today</i> , <b>2011</b> , 20, 123-125	1.9	
10	Editor's interview. <i>Liquid Crystals Today</i> , <b>2011</b> , 20, 116-119	1.9	
9	The 2010 Royal Society Summer Science Exhibition. <i>Liquid Crystals Today</i> , <b>2011</b> , 20, 38-40	1.9	
8	A special issue of Liquid Crystals to commemorate Professor Pierre-Gilles de Gennes. <i>Liquid Crystals Today</i> , <b>2011</b> , 20, 61-61	1.9	
7	Liquid Crystals arrive back home at their birthplace. <i>Liquid Crystals Today</i> , <b>2012</b> , 21, 47-48	1.9	
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1 Report on the annual meeting of the British Liquid Crystal Society (BLCS). *Liquid Crystals Today*,  
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