

# Ralf Stannarius

## List of Publications by Year in descending order

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270  
papers

5,341  
citations

101384

36  
h-index

138251

58  
g-index

274  
all docs

274  
docs citations

274  
times ranked

2816  
citing authors

#	ARTICLE	IF	CITATIONS
1	Length Scale of Cooperativity in the Dynamic Glass Transition. <i>Physical Review Letters</i> , 1997, 79, 2077-2080.	2.9	353
2	Dielectric investigations of the dynamic glass transition in nanopores. <i>Physical Review E</i> , 1996, 54, 5377-5390.	0.8	211
3	Surface-induced orientational order in the isotropic phase of a liquid-crystal material. <i>Physical Review A</i> , 1991, 44, 2558-2569.	1.0	122
4	Granular materials composed of shape-anisotropic grains. <i>Soft Matter</i> , 2013, 9, 7401.	1.2	116
5	Dynamics of H-bonded liquids confined to nanopores. <i>Europhysics Letters</i> , 1996, 35, 719-724.	0.7	114
6	Novel Approach to the Analysis of Broadband Dielectric Spectra. <i>Physical Review Letters</i> , 1996, 76, 2177-2180.	2.9	111
7	Orientational Order and Alignment of Elongated Particles Induced by Shear. <i>Physical Review Letters</i> , 2012, 108, 228302.	2.9	109
8	Dielectric properties of the nematic liquid crystal 4- <i>n</i> -pentyl-4'-cyanobiphenyl in porous membranes. <i>Liquid Crystals</i> , 1996, 20, 59-66.	0.9	103
9	Measurement of orientational order and mobility of a nematic liquid crystal in random nanometer confinement. <i>Journal of Chemical Physics</i> , 1997, 106, 3730-3742.	1.2	87
10	Inclusions in free standing smectic liquid crystal films. <i>Soft Matter</i> , 2008, 4, 683.	1.2	71
11	Granular Gases of Rod-Shaped Grains in Microgravity. <i>Physical Review Letters</i> , 2013, 110, 144102.	2.9	69
12	Shear-induced alignment and dynamics of elongated granular particles. <i>Physical Review E</i> , 2012, 86, 051304.	0.8	67
13	On-Off Intermittency in Stochastically Driven Electrohydrodynamic Convection in Nematics. <i>Physical Review Letters</i> , 1999, 83, 749-752.	2.9	65
14	Outflow and clogging of shape-anisotropic grains in hoppers with small apertures. <i>Soft Matter</i> , 2017, 13, 402-414.	1.2	65
15	Nematic director orientation in a liquid-crystal dispersed polymer: A deuterium nuclear-magnetic-resonance approach. <i>Journal of Applied Physics</i> , 1991, 70, 135-143.	1.1	62
16	Field-induced texture transitions in a bent-core nematic liquid crystal. <i>Physical Review E</i> , 2007, 76, 061704.	0.8	60
17	Alignment and dynamics of elongated cylinders under shear. <i>Soft Matter</i> , 2012, 8, 10950.	1.2	59
18	Effects of grain shape on packing and dilatancy of sheared granular materials. <i>Soft Matter</i> , 2014, 10, 5157.	1.2	58

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19	Packing, alignment and flow of shape-anisotropic grains in a 3D silo experiment. <i>New Journal of Physics</i> , 2016, 18, 093017.	1.2	58
20	The first bent-core mesogens exhibiting a dimorphism B $\leftrightarrow$ SmCP A. <i>Journal of Materials Chemistry</i> , 2004, 14, 2492.	6.7	57
21	Unexpected liquid crystalline behaviour of three-ring bent-core mesogens: bis(4-subst.-phenyl) 2-methyl-iso-phthalates. <i>Soft Matter</i> , 2012, 8, 2671.	1.2	56
22	Preparation of actuating fibres of oriented main-chain liquid crystalline elastomers by a wet spinning process. <i>Soft Matter</i> , 2011, 7, 3730.	1.2	52
23	A fibre forming smectic twist $\leftrightarrow$ bent liquid crystalline phase. <i>RSC Advances</i> , 2015, 5, 11207-11211.	1.7	52
24	Electroclinic effect in free-standing smectic elastomer films. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 381-388.	1.1	50
25	Self-organization of isotropic droplets in smectic-C free-standing films. <i>Physical Review E</i> , 2004, 70, 061702.	0.8	48
26	Optically driven translational and rotational motions of microrod particles in a nematic liquid crystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1716-1720.	3.3	48
27	Dynamic Exchange Effects in Broadband Dielectric Spectroscopy. <i>Physical Review Letters</i> , 1995, 75, 4698-4701.	2.9	44
28	Liquid Crystal Elastomer Balloons. <i>Macromolecules</i> , 2001, 34, 3962-3972.	2.2	44
29	Ferroelectric Smectic Phase Formed by Achiral Straight Core Mesogens. <i>Physical Review Letters</i> , 2003, 90, 025502.	2.9	43
30	Coarsening of axial segregation patterns of slurries in a horizontally rotating drum. <i>Physical Review E</i> , 2006, 74, 031312.	0.8	43
31	Surface tensions of smectic liquid crystals. <i>Liquid Crystals</i> , 2001, 28, 241-252.	0.9	41
32	Structure and elastic properties of smectic liquid crystalline elastomer films. <i>Physical Review E</i> , 2002, 65, 041707.	0.8	41
33	At the boundary to banana-shaped liquid crystals: polar properties of phases formed by new asymmetric achiral four-ring bent-core mesogens. <i>Soft Matter</i> , 2009, 5, 1840.	1.2	41
34	Two-Dimensional Microrheology of Freely Suspended Liquid Crystal Films. <i>Physical Review Letters</i> , 2011, 107, 268301.	2.9	41
35	Mesophase structure and behaviour in bulk and restricted geometry of a dimeric compound exhibiting a nematic $\leftrightarrow$ nematic transition. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19299-19308.	1.3	40
36	Magnetic resonance imaging of granular materials. <i>Review of Scientific Instruments</i> , 2017, 88, 051806.	0.6	39

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37	Isotropic Droplets in Thin Free Standing Smectic Films. <i>Langmuir</i> , 2002, 18, 9735-9743.	1.6	38
38	Silo outflow of soft frictionless spheres. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	38
39	Comment on "Dynamics of electro-optical switching processes in surface stabilized biaxial nematic phase found in bent-core liquid crystal" [J. Appl. Phys. 101, 034105 (2007)]. <i>Journal of Applied Physics</i> , 2008, 104, 036104.	1.1	37
40	Self-supporting bubbles of thermotropic smectic liquid crystals. <i>Europhysics Letters</i> , 1998, 42, 43-48.	0.7	34
41	Structure and dynamics of ferroelectric liquid crystals under random geometrical restrictions. <i>Liquid Crystals</i> , 2001, 28, 1071-1083.	0.9	34
42	Surface tension measurements in freely suspended bubbles of thermotropic smectic liquid crystals. <i>Liquid Crystals</i> , 1997, 23, 371-375.	0.9	33
43	Free Cooling of a Granular Gas of Rodlike Particles in Microgravity. <i>Physical Review Letters</i> , 2018, 120, 214301.	2.9	32
44	Optical characterization of chevron texture formation in nematic electroconvection. <i>Physica D: Nonlinear Phenomena</i> , 1999, 126, 171-188.	1.3	31
45	NMR and Dielectric Studies of Nano-Confined Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 303, 209-217.	0.3	29
46	Fundamental scaling laws of on-off intermittency in a stochastically driven dissipative pattern-forming system. <i>Physical Review E</i> , 2002, 65, 046229.	0.8	29
47	Influence of excitation wave forms and frequencies on the fundamental time symmetry of the system dynamics, studied in nematic electroconvection. <i>Physical Review E</i> , 2005, 71, 056307.	0.8	29
48	Preface: Focus on imaging methods in granular physics. <i>Review of Scientific Instruments</i> , 2017, 88, 051701.	0.6	29
49	Longitudinal and normal electroconvection rolls in a nematic liquid crystal with positive dielectric and negative conductivity anisotropy. <i>Physical Review E</i> , 2008, 77, 056206.	0.8	28
50	Oscillations of soap bubbles. <i>New Journal of Physics</i> , 2010, 12, 073031.	1.2	28
51	Dynamics of freely floating smectic bubbles. <i>Europhysics Letters</i> , 2012, 100, 16003.	0.7	28
52	Study of smectic elastomer films under uniaxial stress. <i>Liquid Crystals</i> , 2004, 31, 895-906.	0.9	27
53	Experimental study of the bursting of inviscid bubbles. <i>Physical Review E</i> , 2007, 75, 065302.	0.8	27
54	Electro-optic characterization of a nematic phase formed by bent core mesogens. <i>European Physical Journal E</i> , 2007, 22, 85-95.	0.7	27

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55	Axial and radial segregation of granular mixtures in a rotating spherical container. <i>Physical Review E</i> , 2009, 79, 031307.	0.8	27
56	Corona patterns around inclusions in freely suspended smectic films. <i>European Physical Journal E</i> , 2009, 28, 265-272.	0.7	27
57	Transient structures in the twist FrÅ©edericksz transition of low-molecular-weight nematic liquid crystals. <i>Physical Review E</i> , 1994, 49, 5452-5461.	0.8	26
58	Structure and mechanical properties of liquid crystalline filaments. <i>Physical Review E</i> , 2005, 71, 031705.	0.8	26
59	Plucking a liquid chord: Mechanical response of a liquid crystal filament. <i>Physical Review E</i> , 2005, 72, 020702.	0.8	26
60	Gelation of smectic liquid crystal phases with photosensitive gel forming agents. <i>Soft Matter</i> , 2006, 2, 693-698.	1.2	26
61	Doping of nematic cyanobiphenyl liquid crystals with mesogen-hybridized magnetic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12127-12135.	1.3	26
62	Electroconvection in nematics above the splay FrÅ©edericksz transition. <i>European Physical Journal E</i> , 2007, 24, 27-33.	0.7	25
63	Atomic force microscopy of menisci of free-standing smectic films. <i>Soft Matter</i> , 2011, 7, 7103.	1.2	25
64	Structure characterization of free-standing filaments drawn in the liquid crystal state. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 469-476.	1.3	24
65	Diffusive and subdiffusive axial transport of granular material in rotating mixers. <i>Physical Review E</i> , 2009, 80, 061302.	0.8	24
66	Preparation of subharmonic patterns in nematic electroconvection. <i>Physical Review E</i> , 2004, 70, 025202.	0.8	23
67	On the Brink of Jamming: Granular Convection in Densely Filled Containers. <i>Physical Review Letters</i> , 2008, 100, 078002.	2.9	23
68	Intermittent flow and transient congestions of soft spheres passing narrow orifices. <i>Soft Matter</i> , 2020, 16, 8013-8023.	1.2	23
69	Topological Point Defects of Liquid Crystals in Quasi-Two-Dimensional Geometries. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	23
70	Electroconvection in freely suspended smectic-C and smectic-C* films. <i>Physical Review E</i> , 1998, 58, 650-659.	0.8	22
71	Frequency-induced structure transition of nematic electroconvection in twist cells. <i>Physical Review E</i> , 1999, 60, 5591-5599.	0.8	22
72	Laser diffraction by periodic dynamic patterns in anisotropic fluids. <i>European Physical Journal B</i> , 2003, 35, 267-278.	0.6	22

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73	Vortex Flow in Freestanding Smectic Films Driven by Elastic Relaxation of the Director. <i>Physical Review Letters</i> , 2006, 97, 097802.	2.9	22
74	Pattern-Stabilized Decorated Polar Liquid-Crystal Fibers. <i>Physical Review Letters</i> , 2012, 109, 017801.	2.9	22
75	Optical manipulation of the nematic director field around microspheres covered with an azo-dendrimer monolayer. <i>Optics Express</i> , 2014, 22, 20087.	1.7	22
76	Defect Interactions in Anisotropic Two-Dimensional Fluids. <i>Physical Review Letters</i> , 2016, 117, 157801.	2.9	22
77	Mechanical manipulation of molecular lattice parameters in smectic elastomers. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2293-2298.	1.3	21
78	Differences between smectic homo- and copolysiloxanes as a consequence of microphase separation. <i>Liquid Crystals</i> , 2005, 32, 533-538.	0.9	20
79	Three-dimensional (3D) experimental realization and observation of a granular gas in microgravity. <i>Advances in Space Research</i> , 2015, 55, 1901-1912.	1.2	20
80	Linking bottleneck clogging with flow kinematics in granular materials: The role of silo width. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	20
81	The Dielectric Properties of Nematic Liquid Crystal, 5CB Confined to Treated and Untreated Anopore Membranes. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 303, 319-324.	0.3	19
82	Collective dynamics of a ferroelectric smectogen in geometrical confinement. <i>Liquid Crystals</i> , 1998, 25, 363-369.	0.9	19
83	Influences of the interstitial liquid on segregation patterns of granular slurries in a rotating drum. <i>Physical Review E</i> , 2007, 75, 031308.	0.8	19
84	In search of a new design strategy for solid single-component organic ferroelectrics: Polar crystalline phases formed by bent-core molecules. <i>Journal of Materials Chemistry</i> , 2010, 20, 6057.	6.7	19
85	Self similarity of liquid droplet coalescence in a quasi-2D free-standing liquid-crystal film. <i>Soft Matter</i> , 2020, 16, 4607-4614.	1.2	19
86	Electroconvection in smectic C liquid-crystal films visualized by optical anisotropy. <i>Europhysics Letters</i> , 1997, 39, 257-262.	0.7	18
87	Collapse of catenoid-shaped smectic films. <i>Europhysics Letters</i> , 2006, 76, 1102-1108.	0.7	18
88	Colloidal inclusions in smectic films with spontaneous bend. <i>European Physical Journal E</i> , 2007, 23, 25-30.	0.7	18
89	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
90	Colloidal Suspensions of Rodlike Nanocrystals and Magnetic Spheres under an External Magnetic Stimulus: Experiment and Molecular Dynamics Simulation. <i>Langmuir</i> , 2016, 32, 5085-5093.	1.6	18

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91	An instrument for studying granular media in low-gravity environment. <i>Review of Scientific Instruments</i> , 2018, 89, 075103.	0.6	18
92	Packing and flow profiles of soft grains in 3D silos reconstructed with X-ray computed tomography. <i>Granular Matter</i> , 2019, 21, 1.	1.1	18
93	Transient Patterns in the Magnetic Reorientation of Low Molecular Mass Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 261, 283-292.	0.3	17
94	Freely Floating Smectic Films. <i>ChemPhysChem</i> , 2014, 15, 1508-1518.	1.0	17
95	The mechanism of long-term coarsening of granular mixtures in rotating drums. <i>New Journal of Physics</i> , 2015, 17, 093023.	1.2	17
96	Heaping and secondary flows in sheared granular materials. <i>New Journal of Physics</i> , 2016, 18, 113006.	1.2	17
97	Photomanipulation of the anchoring strength using a spontaneously adsorbed layer of azo dendrimers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7597-7606.	1.3	17
98	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
99	Experimental evidence of a conic helical liquid crystalline structure in cylindrical microcavities. <i>Liquid Crystals</i> , 1994, 17, 323-332.	0.9	16
100	Computation of Orientational Distributions of Partially Ordered Samples from NMR Spectra. <i>Journal of Magnetic Resonance Series B</i> , 1995, 106, 14-23.	1.6	16
101	Elastic Properties of Liquid Crystal Elastomer Balloons. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 364, 305-312.	0.3	16
102	Switching of Electrically Responsive, Light-Sensitive Colloidal Suspensions of Anisotropic Pigment Particles. <i>Advanced Functional Materials</i> , 2011, 21, 556-564.	7.8	16
103	A Gallery of Meniscus Patterns of Free-Standing Smectic Films. <i>Ferroelectrics</i> , 2012, 431, 59-73.	0.3	16
104	Heaping, secondary flows and broken symmetry in flows of elongated granular particles. <i>Soft Matter</i> , 2015, 11, 2570-2576.	1.2	16
105	Threshold of gas-like to clustering transition in driven granular media in low-gravity environment. <i>Europhysics Letters</i> , 2018, 123, 14003.	0.7	16
106	Buckling instability of droplet chains in freely suspended smectic films. <i>Physical Review E</i> , 2005, 72, 011705.	0.8	15
107	Electric-Field-Induced Phase Separation and Homogenization Dynamics in Colloidal Suspensions of Dichroic Rod-Shaped Pigment Particles. <i>Langmuir</i> , 2014, 30, 7070-7076.	1.6	15
108	Frustrated packing in a granular system under geometrical confinement. <i>Soft Matter</i> , 2018, 14, 396-404.	1.2	15

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109	Flow of anisometric particles in a quasi-two-dimensional hopper. <i>Physical Review E</i> , 2018, 97, 062904.	0.8	15
110	High-speed x-ray tomography of silo discharge. <i>New Journal of Physics</i> , 2019, 21, 113054.	1.2	15
111	Collective dynamic modes of microconfined ferroelectric liquid crystals. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2001, 8, 488-493.	1.8	14
112	Hydrogen bonded ferroelectric liquid crystal gels in freely suspended film geometry. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 916-923.	1.3	14
113	Energetics of 2D colloids in free-standing smectic-C films. <i>European Physical Journal E</i> , 2006, 20, 299-308.	0.7	14
114	Excitation-induced dynamics of external pH pattern in <i>Chara corallina</i> cells and its dependence on external calcium concentration. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 103-109.	1.6	14
115	More than display fillings. <i>Nature Materials</i> , 2009, 8, 617-618.	13.3	14
116	Segregation of granular mixtures in a spherical tumbler. <i>Physical Review E</i> , 2016, 93, 032903.	0.8	14
117	Optical Characterization of Electroconvection in Nematics. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 320, 11-27.	0.3	13
118	Dielectric and Electro-optic Study of Nematic 5CB Confined in Nitrate Cellulose Membranes. <i>Zeitschrift Fur Physikalische Chemie</i> , 1999, 211, 147-158.	1.4	13
119	Strain-induced compression of smectic layers in free-standing liquid crystalline elastomer films. <i>Liquid Crystals</i> , 2005, 32, 805-813.	0.9	13
120	Multistage polar switching in bent-core mesogens. <i>European Physical Journal E</i> , 2008, 25, 395-402.	0.7	13
121	Spontaneous bend patterns in homochiral ferroelectric SmCP films: evidence for a negative effective bend constant. <i>Soft Matter</i> , 2008, 4, 2186.	1.2	13
122	Mechanical and optical properties of continuously spun fibres of a main-chain smectic A elastomer. <i>Soft Matter</i> , 2012, 8, 1858-1864.	1.2	13
123	Flow in an hourglass: particle friction and stiffness matter. <i>New Journal of Physics</i> , 2021, 23, 023001.	1.2	13
124	Brownian dynamics of elongated particles in a quasi-two-dimensional isotropic liquid. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	13
125	Self-Supporting Smectic Bubbles. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 329, 423-431.	0.3	12
126	Electrically Induced Tilt in Achiral Bent-Core Liquid Crystals. <i>Physical Review Letters</i> , 2008, 101, 247802.	2.9	12



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127	Vortex flow in free-standing smectic C films driven by elastic distortions. <i>Soft Matter</i> , 2011, 7, 2858.	1.2	12
128	Evolution of shear zones in granular materials. <i>Physical Review E</i> , 2014, 90, 032205.	0.8	12
129	Machine Learning for 3D Particle Tracking in Granular Gases. <i>Microgravity Science and Technology</i> , 2020, 32, 897-906.	0.7	12
130	Influence of Confining Geometries on Collective Dynamic Modes in Chiral Smectogens. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 329, 483-490.	0.3	11
131	Stick-slip dynamics around a topological defect in free-standing smectic films. <i>Physical Review E</i> , 2006, 74, 040701.	0.8	11
132	Rim instability of bursting thin smectic films. <i>Physics of Fluids</i> , 2013, 25, .	1.6	11
133	Mechanical excitation of rodlike particles by a vibrating plate. <i>Physical Review E</i> , 2017, 95, 062904.	0.8	11
134	Marangoni Flow in Freely Suspended Liquid Films. <i>Physical Review Letters</i> , 2019, 122, 234501.	2.9	11
135	Annihilation of point defect pairs in freely suspended liquid-crystal films. <i>Physical Review Research</i> , 2020, 2, .	1.3	11
136	Spatio-temporal Analysis of Electroconvection in Nematics. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1998, 53, 117-126.	0.7	10
137	c-director relaxation around a vortex of strength +1 in free-standing smectic-C films. <i>European Physical Journal E</i> , 2006, 21, 57-67.	0.7	10
138	Ambidextrous bend patterns in free-standing polar smectic- $C$ films. <i>Physical Review E</i> , 2008, 78, 061705.	0.8	10
139	Comparison of the rupture dynamics of smectic bubbles and soap bubbles. <i>Liquid Crystals</i> , 2009, 36, 133-145.	0.9	10
140	A model for a field-induced ferroelectric state in a bent-core mesogen. <i>Soft Matter</i> , 2009, 5, 4136.	1.2	10
141	Meniscus of a ferrofluid around a vertical cylindrical wire carrying electric current. <i>Physical Review E</i> , 2011, 83, 056308.	0.8	10
142	Oscillations, Cessations, and Circulation Reversals of Granular Convection in a Densely Filled Rotating Container. <i>Physical Review Letters</i> , 2012, 108, 118001.	2.9	10
143	Measurement of the interface tension of smectic membranes in water. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7204.	1.3	10
144	Structure and dynamics of a two-dimensional colloid of liquid droplets. <i>Soft Matter</i> , 2019, 15, 8156-8163.	1.2	10

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145	Elastic Constants of Nematic Phenylpyrimidines Determined by Two Different Methods. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1990, 45, 37-42.	0.7	9
146	Electrohydrodynamic Convection in Nematics Under Stochastic Excitation. Molecular Crystals and Liquid Crystals, 1997, 304, 525-530.	0.3	9
147	VERTICALLY SUSPENDED SMECTIC FILMS WITH IN-PLANE TEMPERATURE GRADIENTS. Molecular Crystals and Liquid Crystals, 2001, 366, 815-824.	0.3	9
148	Electro-optic study of antiferroelectric freely suspended films of bent-core mesogens in the B <sub>2</sub> phase. Physical Review E, 2002, 66, 031709.	0.8	9
149	Gas Permeation through Ultrathin Liquid Films. Langmuir, 2002, 18, 112-119.	1.6	9
150	Fundamental relations between the symmetry of excitation and the existence of spatiotemporal subharmonic structures in a pattern-forming dynamic system. Physical Review E, 2005, 72, 066218.	0.8	9
151	Optical properties of electrohydrodynamic convection patterns: rigorous and approximate methods. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 2818.	0.8	9
152	Microscopic structures of the B <sub>7</sub> phase: AFM and electron microscopy studies. Liquid Crystals, 2006, 33, 789-794.	0.9	9
153	FTIR spectroscopy of smectic elastomer films under lateral strain. Liquid Crystals, 2007, 34, 87-94.	0.9	9
154	Deep Holes in Free-Standing Smectic C Films. Ferroelectrics, 2014, 468, 92-100.	0.3	9
155	Magnetic control of flexoelectric domains in a nematic fluid. Soft Matter, 2014, 10, 4487-4497.	1.2	9
156	Leaning-type polar smectic-C phase in a freely suspended bent-core liquid crystal film. Physical Review E, 2015, 91, 030502.	0.8	9
157	The role of structural anisotropy in the magneto-optical response of an organoferrogel with mobile magnetic nanoparticles. Soft Matter, 2019, 15, 3788-3795.	1.2	9
158	Viscoelastic coefficients of glass-forming nematics. Liquid Crystals, 1991, 9, 285-297.	0.9	8
159	Director patterns and inversion walls in 2D inhomogeneously deformed nematic LC layers. Liquid Crystals, 1993, 14, 1935-1943.	0.9	8
160	Mechanical Properties of Freely Suspended LC Filaments. Molecular Crystals and Liquid Crystals, 2006, 449, 179-189.	0.4	8
161	Time reversal of the excitation wave form in a dissipative pattern-forming system. Physical Review E, 2008, 78, 036218.	0.8	8
162	Acoustically driven oscillations of freely suspended liquid crystal filaments. Soft Matter, 2009, 5, 3120.	1.2	8

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163	Smectic Foams. <i>Langmuir</i> , 2010, 26, 7899-7904.	1.6	8
164	Nematic electroconvection under time-reversed excitation. <i>Physical Review E</i> , 2010, 82, 046215.	0.8	8
165	Frustrated packing of spheres in a flat container under symmetry-breaking bias. <i>Physical Review E</i> , 2015, 91, 030201.	0.8	8
166	Rupture and recoil of bent-core liquid crystal filaments. <i>Soft Matter</i> , 2016, 12, 4725-4730.	1.2	8
167	Measurement of the torque on diluted ferrofluid samples in rotating magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 431, 66-69.	1.0	8
168	Elastic Constants and Diamagnetic Susceptibility of Nematic LC Determined by A Combined Electro-Magneto-Optical Method. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1990, 191, 419-423.	0.3	7
169	Determination of viscoelastic coefficients from the optical transmission of a planar liquid crystal cell with low-frequency modulated voltage. <i>Journal of Applied Physics</i> , 1993, 74, 6053-6057.	1.1	7
170	Surface and Interface Tensions Determined From Isotropic Droplets in Freely Suspended Smectic Films. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 412, 425-433.	0.4	7
171	Filaments formed in the hexagonal columnar liquid crystal phase of star-shaped oligobenzoates. <i>Liquid Crystals</i> , 2013, 40, 345-353.	0.9	7
172	Microgravity experiments on a granular gas of elongated grains. , 2013, , .		7
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