

Geoffrey R Luckhurst

List of Publications by Year in descending order

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66
papers

2,485
citations

218677

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214800

47
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74
all docs

74
docs citations

74
times ranked

1057
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2020 Luckhurst-Samulski Prize. <i>Liquid Crystals</i> , 2021, 48, 2073-2075.	2.2	0
2	Setting things straight in $\hat{\sim}$ The twist-bend nematic: a case of mistaken identity $\hat{\sim}$ TM . <i>Liquid Crystals</i> , 2020, 47, 2098-2115.	2.2	18
3	Biaxiality-driven twist-bend to splay-bend nematic phase transition induced by an electric field. <i>Science Advances</i> , 2020, 6, .	10.3	23
4	Exploring the behaviour of the twist-bend nematic phase using NMR with a variety of spin probes. <i>Liquid Crystals</i> , 2020, 47, 2074-2091.	2.2	4
5	The 2019 Luckhurst-Samulski Prize. <i>Liquid Crystals</i> , 2020, 47, 2117-2119.	2.2	0
6	On orientational order in nematic and twist-bend nematic phases: a ² H-NMR study of binary mixtures of the odd dimer, 1,9-bis(4-cyanobiphenyl-4-yl) nonane, (CB9CB), and the monomer, 4-pentyl-4-cyanobiphenyl, (5CB-d ₂). <i>Liquid Crystals</i> , 2018, 45, 1913-1928.	2.2	5
7	The 2017 Luckhurst-Samulski Prize. <i>Liquid Crystals</i> , 2018, 45, 1723-1725.	2.2	0
8	Structural insights into the twist-bend nematic phase from the integration of 2H-NMR data and modelling: CB7CB and CB6OCB as case studies. <i>Liquid Crystals</i> , 2018, 45, 2361-2375.	2.2	10
9	Electric-field effects in the twist-bend nematic phase. , 2018, , .		6
10	Understanding the twist-bend nematic phase: the characterisation of 1-(4-cyanobiphenyl-4-yl)oxy)-6-(4-cyanobiphenyl-4-yl)hexane (CB6OCB) and comparison with CB7CB. <i>Soft Matter</i> , 2016, 12, 6827-6840.	2.7	173
11	Molecular dynamics of a binary mixture of twist-bend nematic liquid crystal dimers studied by dielectric spectroscopy. <i>Physical Review E</i> , 2016, 93, 062705.	2.1	8
12	Deuterium NMR investigations of field-induced director alignment in nematic liquid crystals. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2016, 94-95, 37-74.	7.5	19
13	On the twist-bend nematic phase formed directly from the isotropic phase. <i>Liquid Crystals</i> , 2016, 43, 2-12.	2.2	94
14	Twist, tilt, and orientational order at the nematic to twist-bend nematic phase transition of 1,9-bis(4-cyanobiphenyl-4-yl) nonane: A dielectric, $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ NMR, and calorimetric study. <i>Physical Review E</i> , 2015, 92, 062505.	2.1	66
15	Macroscopic order in a nematic liquid crystal: Perturbation by spontaneous director fluctuations. <i>Physical Review E</i> , 2015, 91, 062502.	2.1	2
16	Raman scattering studies of order parameters in liquid crystalline dimers exhibiting the nematic and twist-bend nematic phases. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10007-10016.	5.5	71
17	Molecular geometry, twist-bend nematic phase and unconventional elasticity: a generalised Maier $\hat{\sim}$ Saupe theory. <i>Soft Matter</i> , 2014, 10, 9318-9323.	2.7	117
18	Enantiotopic discrimination and director organization in the twist-bend nematic phase. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14961.	2.8	57

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19	Chiral solutes can seed the formation of enantiomorphic domains in a twist-bend nematic liquid crystal. <i>Physical Review E</i> , 2013, 87, 040501.	2.1	38
20	A Comparison of the Conformational Distributions of the Achiral Symmetric Liquid Crystal Dimer CB7CB in the Achiral Nematic and Chiral Twist-Bend Nematic Phases. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6547-6557.	2.6	78
21	The Chirality of a Twist-Bend Nematic Phase Identified by NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7940-7951.	2.6	129
22	Molecular-field-theory approach to the Landau theory of liquid crystals: Uniaxial and biaxial nematics. <i>Physical Review E</i> , 2012, 85, 031705.	2.1	37
23	Crucial role of molecular curvature for the bend elastic and flexoelectric properties of liquid crystals: mesogenic dimers as a case study. <i>Journal of Materials Chemistry</i> , 2011, 21, 12303.	6.7	113
24	Molecular field theory for biaxial nematic liquid crystals composed of molecules with C_{2v} group symmetry. <i>Physical Review E</i> , 2011, 84, 011704.	2.1	20
25	Angular dependence of $^2\text{H-NMR}$ longitudinal spin relaxation in aligned nematic 4-n-pentyl-4'-cyanobiphenyl: molecular rotation and director fluctuations. <i>Liquid Crystals</i> , 2010, 37, 773-784.	2.2	6
26	The director and molecular dynamics of the field-induced alignment of a Gay-Berne nematic phase: An isothermal-isobaric nonequilibrium molecular dynamics simulation study. <i>Journal of Chemical Physics</i> , 2010, 132, .	3.0	6
27	Biaxial nematics composed of flexible molecules: a molecular field theory. <i>Liquid Crystals</i> , 2009, 36, 1295-1308.	2.2	20
28	Deuterium NMR spectra of a monodomain nematic: Angular dependence of the linewidths. <i>Thin Solid Films</i> , 2008, 517, 1394-1401.	1.8	10
29	On the flexoelectric coefficients of liquid crystal monomers and dimers: a computational methodology bridging length-scales. <i>Journal of Materials Chemistry</i> , 2007, 17, 1039.	6.7	43
30	A study of the director distribution using deuterium NMR spectroscopy and simultaneous in situ observation of the light transmittance for a nematic subject to magnetic, electric and surface fields. <i>Current Applied Physics</i> , 2006, 6, 891-896.	2.4	0
31	V-Shaped Molecules: New Contenders for the Biaxial Nematic Phase. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2834-2836.	13.8	75
32	V-Shaped Molecules: New Contenders for the Biaxial Nematic Phase. <i>ChemInform</i> , 2005, 36, no.	0.0	0
33	Liquid crystals: a chemical physicist's view. <i>Liquid Crystals</i> , 2005, 32, 1335-1364.	2.2	67
34	Biaxial nematics: computer simulation studies of a generic rod-disc dimer model. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2821.	2.8	13
35	Electric field-driven director oscillations in nematic liquid crystals. <i>Liquid Crystals</i> , 2005, 32, 1449-1463.	2.2	6
36	A missing phase found at last?. <i>Nature</i> , 2004, 430, 413-414.	27.8	149

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37	End-on and Side-on Nematic Liquid Crystal Dendrimers. <i>Macromolecules</i> , 2004, 37, 9386-9394.	4.8	28
38	Studies of translational diffusion in the smectic A phase of a Gayâ€“Berne mesogen using molecular dynamics computer simulation. <i>Journal of Chemical Physics</i> , 2004, 120, 394-403.	3.0	43
39	DEUTERIUM NMR SPECTROSCOPY AND FIELD-INDUCED DIRECTOR DYNAMICS IN LIQUID CRYSTALS. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 402, 117-125.	0.9	9
40	X-ray scattering patterns of model liquid crystals from computer simulation: Calculation and analysis. <i>Journal of Chemical Physics</i> , 2003, 118, 6605-6614.	3.0	25
41	Field-Induced Director Dynamics in the Nematic Phase of 4-Octyl-4â€“Cyanobiphenyl. A Deuterium Nmr Investigation. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 394, 77-91.	0.9	6
42	Field-Induced Director Dynamics of Nematic 4-OCTYL-4â€“Cyanobiphenyl: A Study By Deuterium NMR Spectroscopy. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 398, 235-248.	0.9	9
43	THE ALIGNMENT OF THE SMECTIC A PHASE OF 4-OCTYL-4â€“CYANOBIPHENYL INDUCED BY AN ELECTRIC FIELD. A TIME-RESOLVED DEUTERIUM NMR STUDY. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 402, 103-116.	0.9	6
44	Explanation of the static and dynamic director orientation in thin nematic liquid crystal films using deuterium NMR spectroscopy. , 2003, , 313-349.		1
45	Synthesis and Liquid Crystal Phase Behaviour of 2-(4-Cyanophenyl)-7-n-alkylfluorenes: Luminescent Mesogens. <i>Chemistry Letters</i> , 2002, 31, 60-61.	1.3	16
46	Specific molecular interactions in Pd(II) complexes identify a new approach to the biaxial nematic phase. <i>Chemical Communications</i> , 2001, , 2248-2249.	4.1	36
47	The surface-induced static director distribution in thin nematic liquid crystal films: A deuterium nuclear magnetic resonance spectroscopy study. <i>Journal of Chemical Physics</i> , 2001, 114, 10493-10503.	3.0	25
48	Toward the Biaxial Nematic Phase of Low Molar Mass Thermotropic Mesogens: A Substantial Molecular Biaxiality in Covalently Linked Rod-Disk Dimers. <i>Journal of the American Chemical Society</i> , 2001, 123, 10115-10116.	13.7	76
49	Determination of the Maier-Saupe strength parameter from dielectric relaxation experiments: a molecular dynamics simulation study. <i>Molecular Physics</i> , 2001, 99, 1365-1371.	1.7	22
50	Deuterium NMR investigation of field-induced director dynamics: the role of backflow. <i>Thin Solid Films</i> , 2001, 393, 399-406.	1.8	14
51	Electric Field-Induced Alignment of the Directors in the Smectic A Phase of 4-Octyl-4â€“Cyanobiphenyl. A Deuterium NMR Study. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 347, 147-156.	0.3	16
52	A Deuterium Nuclear Magnetic Resonance Investigation of Field Induced Director Dynamics in a Nematic Slab Subject to Magnetic and Pulsed Electric Fields. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 347, 167-178.	0.3	24
53	A Deuterium Nuclear Magnetic Resonance Investigation of the Director Distribution in a Thin Nematic Liquid Crystal Slab. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 347, 53-63.	0.3	8
54	Liquid crystal trimers. The synthesis and characterisation of the 4,4â€“bis[1-(4-cyanobiphenyl-4â€“yloxy)alkoxy]biphenyls. <i>Journal of Materials Chemistry</i> , 1998, 8, 1339-1343.	6.7	93

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55	Symmetric and non-symmetric liquid crystal dimers with branched terminal alkyl chains: racemic and chiral. <i>Journal of Materials Chemistry</i> , 1997, 7, 9-17.	6.7	83
56	Pretransitional behaviour of nematogenic mixtures ² H NMR investigation. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 3099-3105.	1.7	3
57	Director deformation of a twisted chiral nematic liquid crystal cell with weak anchoring boundaries. <i>Physical Review E</i> , 1995, 52, 681-689.	2.1	79
58	Liquid crystal dimers and oligomers: Experiment and theory. <i>Macromolecular Symposia</i> , 1995, 96, 1-26.	0.7	118
59	The search for thermotropic biaxial nematics. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 3177.	1.7	34
60	On the molecular organisation within the nematic phase of liquid crystal dimers. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 3289.	1.7	24
61	Nematic-isotropic pretransitional behaviour in dimers with odd and even spacer lengths. <i>Liquid Crystals</i> , 1991, 9, 831-838.	2.2	7
62	Pretransitional behaviour in liquid crystals. The roles of nuclear magnetic resonance spectroscopy and molecular field theory. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1988, 84, 961.	1.1	38
63	Biradicals as Spin Probes. , 1976, , 133-181.		54
64	The determination of a temperature-dependent tilt angle in a smectic C liquid crystal by electron resonance spectroscopy. <i>Molecular Physics</i> , 1971, 21, 349-352.	1.7	16
65	Interpretation of biradical electron resonance spectra. <i>Journal of the American Chemical Society</i> , 1970, 92, 4738-4739.	13.7	45
66	Twist-bend nematic phase of the liquid crystal dimer CB7CB: orientational order and conical angle determined by ¹²⁹ Xe and ² H NMR spectroscopy. <i>Liquid Crystals</i> , 0, , 1-14.	2.2	16