Akihiko Sugimura

List of Publications by Year
in descending order

52 papers	825 citations	516710 16 h-index	501196 28 g-index
54 all docs	54 docs citations	54 times ranked	543 citing authors

#	Article	IF	Citations
1	Avalanche charge generation in anhydrous glucosides excited by an external electric field. AIP Advances, 2019, 9, 125015.	1.3	0
2	Dry Thermotropic Glycolipid Self-Assembly:A Review. Journal of Oleo Science, 2018, 67, 651-668.	1.4	27
3	Anhydrous octyl-glucoside phase transition from lamellar to isotropic induced by electric and magnetic fields. Journal of Chemical Physics, 2017, 146, 084702.	3.0	10
4	Deuterium NMR investigations of field-induced director alignment in nematic liquid crystals. Progress in Nuclear Magnetic Resonance Spectroscopy, 2016, 94-95, 37-74.	7.5	19
5	Macroscopic order in a nematic liquid crystal: Perturbation by spontaneous director fluctuations. Physical Review E, 2015, 91, 062502.	2.1	2
6	Amphiphilic designer nano-carriers for controlled release: from drug delivery to diagnostics. MedChemComm, 2014, 5, 1602-1618.	3.4	74
7	Nature-likesynthetic alkyl branched-chain glycolipids: a review on chemical structure and self-assembly properties. Liquid Crystals, 2012, 39, 1-17.	2.2	87
8	Uniform Alignment of Liquid Crystals Induced by Perfluoropolyether Film Exposed to Linearly Polarized Ultraviolet Light. Molecular Crystals and Liquid Crystals, 2010, 516, 38-44.	0.9	1
9	Computer Simulation of the Deuterium NMR Spectra Reflecting the Director Distribution for Multi-Domains in a Thin Nematic Cell. Molecular Crystals and Liquid Crystals, 2010, 516, 53-63.	0.9	0
10	Angular dependence of²H-NMR longitudinal spin relaxation in aligned nematic 4-n-pentyl-4'-cyanobiphenyl: molecular rotation and director fluctuations. Liquid Crystals, 2010, 37, 773-784.	2.2	6
11	TIME-AVERAGED DEUTERIUM NMR STUDIES OF THE DYNAMIC PROPERTIES FOR A LOW MOLAR MASS NEMATIC. , 2010, , 193-222.		0
12	Weak anchoring of nematic liquid crystals on photo-induced surface relief gratings of organic polysilane. Thin Solid Films, 2009, 518, 767-770.	1.8	5
13	Deuterium NMR Studies of Static and Dynamic Director Alignment for Low Molar Mass Nematics. , 2009, , 301-339.		2
14	Deuterium NMR spectra of a monodomain nematic: Angular dependence of the linewidths. Thin Solid Films, 2008, 517, 1394-1401.	1.8	10
15	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. Current Applied Physics, 2006, 6, 891-896.	2.4	0
16	NMR determination of the physical properties of nematics. Liquid Crystals, 2005, 32, 1389-1396.	2.2	17
17	Electric fieldâ€driven director oscillations in nematic liquid crystals. Liquid Crystals, 2005, 32, 1449-1463.	2.2	6
18	Nematic director deformation induced by a periodic surface anchoring strength. Thin Solid Films, 2003, 438-439, 433-439.	1.8	13

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19	DEUTERIUM NMR SPECTROSCOPY AND FIELD-INDUCED DIRECTOR DYNAMICS IN LIQUID CRYSTALS. Molecular Crystals and Liquid Crystals, 2003, 402, 117-125.	0.9	9
20	ANOMALOUS FIELD-INDUCED DIRECTOR DEFORMATION IN A HOMOGENEOUS THIN NEMATIC LIQUID CRYSTAL CELL. Molecular Crystals and Liquid Crystals, 2003, 400, 97-104.	0.9	2
21	Field-Induced Director Dynamics in the Nematic Phase of 4-Octyl-4â€³-Cyanobiphenyl. A Deuterium Nmr Investigation. Molecular Crystals and Liquid Crystals, 2003, 394, 77-91.	0.9	6
22	Field-Induced Director Dynamics of Nematic 4-OCTYL-4â€²-Cyanobiphenyl: A Study By Deuterium NMR Spectroscopy. Molecular Crystals and Liquid Crystals, 2003, 398, 235-248.	0.9	9
23	THE ALIGNMENT OF THE SMECTIC A PHASE OF 4-OCTYL-4â€²-CYANOBIPHENYL INDUCED BY AN ELECTRIC FIELD. A TIME-RESOLVED DEUTERIUM NMR STUDY. Molecular Crystals and Liquid Crystals, 2003, 402, 103-116.	0.9	6
24	The surface-induced static director distribution in thin nematic liquid crystal films: A deuterium nuclear magnetic resonance spectroscopy study. Journal of Chemical Physics, 2001, 114, 10493-10503.	3.0	25
25	Deuterium NMR investigation of field-induced director dynamics: the role of backflow. Thin Solid Films, 2001, 393, 399-406.	1.8	14
26	Electric Field-Induced Alignment of the Directors in the Smectic A Phase of 4-Octyl-4â€²-Cyanobiphenyl. A Deuterium NMR Study. Molecular Crystals and Liquid Crystals, 2000, 347, 147-156.	0.3	16
27	C-V Hysteresis Observed in a Splay-Bend Transition: a Novel Method for the Evaluation of a Transition Speed. Molecular Crystals and Liquid Crystals, 2000, 347, 81-94.	0.3	0
28	A Deuterium Nuclear Magnetic Resonance Investigation of Field Induced Director Dynamics in a Nematic Slab Subject to Magnetic and Pulsed Electric Fields. Molecular Crystals and Liquid Crystals, 2000, 347, 167-178.	0.3	24
29	A Deuterium Nuclear Magnetic Resonance Investigation of the Director Distribution in a Thin Nematic Liquid Crystal Slab. Molecular Crystals and Liquid Crystals, 2000, 347, 53-63.	0.3	8
30	Observation of Transient Diffraction Induced by Ionic Conduction in Nematic Liquid Crystal Cells. Molecular Crystals and Liquid Crystals, 1999, 331, 289-296.	0.3	3
31	Unified Surface Anchoring Energy for Cyano-and Fluorinated Nematic Liquid Crystals on a Polymer Alignment Layer. Molecular Crystals and Liquid Crystals, 1999, 329, 161-170.	0.3	2
32	Unified surface anchoring energy of a nematic liquid crystal slab: surface-induced optical switching and director distribution. Thin Solid Films, 1998, 331, 25-31.	1.8	3
33	Determination of the unified surface-anchoring energy of a nematic liquid crystal on a polymer substrate. Applied Physics Letters, 1998, 72, 329-331.	3.3	54
34	Temperature Dependence of Nematic Anchoring Energy on Weak Surfaces of Polyimide Langmuir-Blodgett Films. Molecular Crystals and Liquid Crystals, 1997, 304, 253-258.	0.3	4
35	Desorption Processes of Adsorbed Impurity Ions on Alignment Layers in Nematic Liquid Crystal Cells. Molecular Crystals and Liquid Crystals, 1997, 301, 85-90.	0.3	23
36	Steady State Current in Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 1997, 303, 225-230.	0.3	4

#	Article	IF	Citations
37	Numerical Simulation of Director Distribution in Nematic Liquid Crystal Cells with Weak Anchoring Boundaries. Molecular Crystals and Liquid Crystals, 1997, 301, 79-84.	0.3	0
38	Anomalous anchoring effect of nanopolyimide Langmuir-Blodgett films in a twisted nematic liquid-crystal cell. Physical Review E, 1996, 54, 5217-5220.	2.1	27
39	Director deformation of a twisted chiral nematic liquid crystal cell with weak anchoring boundaries. Physical Review E, 1995, 52, 681-689.	2.1	79
40	Dielectric Properties of Nematic Liquid Crystals in Low Frequency Regime. Molecular Crystals and Liquid Crystals, 1995, 262, 249-255.	0.3	29
41	Transient photocurrent in amorphous selenium and nematic liquid crystal double layers. Journal of Applied Physics, 1995, 78, 4533-4537.	2.5	62
42	Rigorous analysis of weak boundary-coupling effects in twisted chiral nematic liquid crystals. Physical Review E, 1995, 51, 784-787.	2.1	16
43	Measurement of Rotational Viscosity and Pretilt Angle in Nematics from Transient Current. Molecular Crystals and Liquid Crystals, 1995, 262, 267-274.	0.3	3
44	Observation of Adsorption and Desorption Processes of Impurity Ions in Nematic Liquid Crystal Cells. Molecular Crystals and Liquid Crystals, 1995, 263, 559-565.	0.3	31
45	Orientational Ordering in Langmuir Monolayer of Liquid Crystal on a Water Surface. Molecular Crystals and Liquid Crystals, 1995, 263, 429-436.	0.3	2
46	Photocurrent in a Nematic Liquid Crystal. Molecular Crystals and Liquid Crystals, 1995, 263, 491-498.	0.3	1
47	General Threshold Properties of Liquid Crystal Slab With Weak Anchoring Boundaries. Molecular Crystals and Liquid Crystals, 1995, 265, 541-548.	0.3	0
48	Transient Ion Transport in Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 1995, 263, 479-489.	0.3	6
49	Mechanism of nematic molecular alignment based on friction charges and surface topology by rubbing. Liquid Crystals, 1993, 14, 319-326.	2.2	7
50	Dynamic behaviour of electric properties in a liquid crystal cell with polyimide boundaries. Liquid Crystals, 1993, 14, 539-544.	2.2	1
51	Transient charging current in nematic liquid crystals. Journal of Applied Physics, 1993, 73, 1119-1125.	2.5	59
52	Direct current screening effect on dip occurrence in nematic electroâ€optical modulation. Journal of Applied Physics, 1991, 70, 5355-5361.	2.5	9