

Akihiko Sugimura

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	<i>Nature-like</i> synthetic alkyl branched-chain glycolipids: a review on chemical structure and self-assembly properties. <i>Liquid Crystals</i> , 2012, 39, 1-17.	2.2	87
2	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
3	Amphiphilic designer nano-carriers for controlled release: from drug delivery to diagnostics. <i>MedChemComm</i> , 2014, 5, 1602-1618.	3.4	74
4	Transient photocurrent in amorphous selenium and nematic liquid crystal double layers. <i>Journal of Applied Physics</i> , 1995, 78, 4533-4537.	2.5	62
5	Transient charging current in nematic liquid crystals. <i>Journal of Applied Physics</i> , 1993, 73, 1119-1125.	2.5	59
6	Determination of the unified surface-anchoring energy of a nematic liquid crystal on a polymer substrate. <i>Applied Physics Letters</i> , 1998, 72, 329-331.	3.3	54
7	Observation of Adsorption and Desorption Processes of Impurity Ions in Nematic Liquid Crystal Cells. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 263, 559-565.	0.3	31
8	Dielectric Properties of Nematic Liquid Crystals in Low Frequency Regime. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 262, 249-255.	0.3	29
9	Anomalous anchoring effect of nanopolyimide Langmuir-Blodgett films in a twisted nematic liquid-crystal cell. <i>Physical Review E</i> , 1996, 54, 5217-5220.	2.1	27
10	Dry Thermotropic Glycolipid Self-Assembly:A Review. <i>Journal of Oleo Science</i> , 2018, 67, 651-668.	1.4	27
11	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
12	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
13	Desorption Processes of Adsorbed Impurity Ions on Alignment Layers in Nematic Liquid Crystal Cells. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 301, 85-90.	0.3	23
14	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
15	NMR determination of the physical properties of nematics. <i>Liquid Crystals</i> , 2005, 32, 1389-1396.	2.2	17
16	Rigorous analysis of weak boundary-coupling effects in twisted chiral nematic liquid crystals. <i>Physical Review E</i> , 1995, 51, 784-787.	2.1	16
17	Electric Field-Induced Alignment of the Directors in the Smectic A Phase of 4-Octyl-4'-Cyanobiphenyl. A Deuterium NMR Study. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 347, 147-156.	0.3	16
18	Deuterium NMR investigation of field-induced director dynamics: the role of backflow. <i>Thin Solid Films</i> , 2001, 393, 399-406.	1.8	14

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19	Nematic director deformation induced by a periodic surface anchoring strength. Thin Solid Films, 2003, 438-439, 433-439.	1.8	13
20	Deuterium NMR spectra of a monodomain nematic: Angular dependence of the linewidths. Thin Solid Films, 2008, 517, 1394-1401.	1.8	10
21	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
22	Direct current screening effect on dip occurrence in nematic electro-optical modulation. Journal of Applied Physics, 1991, 70, 5355-5361.	2.5	9
23	DEUTERIUM NMR SPECTROSCOPY AND FIELD-INDUCED DIRECTOR DYNAMICS IN LIQUID CRYSTALS. Molecular Crystals and Liquid Crystals, 2003, 402, 117-125.	0.9	9
24	Field-Induced Director Dynamics of Nematic 4-OCTYL-4'-CYANOBIPHENYL: A Study By Deuterium NMR Spectroscopy. Molecular Crystals and Liquid Crystals, 2003, 398, 235-248.	0.9	9
25	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
26	Mechanism of nematic molecular alignment based on friction charges and surface topology by rubbing. Liquid Crystals, 1993, 14, 319-326.	2.2	7
27	Transient Ion Transport in Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 1995, 263, 479-489.	0.3	6
28	Field-Induced Director Dynamics in the Nematic Phase of 4-Octyl-4'-Cyanobiphenyl. A Deuterium Nmr Investigation. Molecular Crystals and Liquid Crystals, 2003, 394, 77-91.	0.9	6
29	THE ALIGNMENT OF THE SMECTIC A PHASE OF 4-OCTYL-4'-CYANOBIPHENYL INDUCED BY AN ELECTRIC FIELD. A TIME-RESOLVED DEUTERIUM NMR STUDY. Molecular Crystals and Liquid Crystals, 2003, 402, 103-116.	0.9	6
30	Electric field-driven director oscillations in nematic liquid crystals. Liquid Crystals, 2005, 32, 1449-1463.	2.2	6
31	Angular dependence of ^2H -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
32	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
33	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
34	Steady State Current in Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 1997, 303, 225-230.	0.3	4
35	Measurement of Rotational Viscosity and Pretilt Angle in Nematics from Transient Current. Molecular Crystals and Liquid Crystals, 1995, 262, 267-274.	0.3	3
36	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

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37	Observation of Transient Diffraction Induced by Ionic Conduction in Nematic Liquid Crystal Cells. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 331, 289-296.	0.3	3
38	Orientalional Ordering in Langmuir Monolayer of Liquid Crystal on a Water Surface. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 263, 429-436.	0.3	2
39	Unified Surface Anchoring Energy for Cyano-and Fluorinated Nematic Liquid Crystals on a Polymer Alignment Layer. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 329, 161-170.	0.3	2
40	ANOMALOUS FIELD-INDUCED DIRECTOR DEFORMATION IN A HOMOGENEOUS THIN NEMATIC LIQUID CRYSTAL CELL. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 400, 97-104.	0.9	2
41	Macroscopic order in a nematic liquid crystal: Perturbation by spontaneous director fluctuations. <i>Physical Review E</i> , 2015, 91, 062502.	2.1	2
42	Deuterium NMR Studies of Static and Dynamic Director Alignment for Low Molar Mass Nematics. , 2009, , 301-339.		2
43	Dynamic behaviour of electric properties in a liquid crystal cell with polyimide boundaries. <i>Liquid Crystals</i> , 1993, 14, 539-544.	2.2	1
44	Photocurrent in a Nematic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 263, 491-498.	0.3	1
45	Uniform Alignment of Liquid Crystals Induced by Perfluoropolyether Film Exposed to Linearly Polarized Ultraviolet Light. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 516, 38-44.	0.9	1
46	General Threshold Properties of Liquid Crystal Slab With Weak Anchoring Boundaries. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 265, 541-548.	0.3	0
47	Numerical Simulation of Director Distribution in Nematic Liquid Crystal Cells with Weak Anchoring Boundaries. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 301, 79-84.	0.3	0
48	C-V Hysteresis Observed in a Splay-Bend Transition: a Novel Method for the Evaluation of a Transition Speed. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 347, 81-94.	0.3	0
49	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
50	Computer Simulation of the Deuterium NMR Spectra Reflecting the Director Distribution for Multi-Domains in a Thin Nematic Cell. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 516, 53-63.	0.9	0
51	Avalanche charge generation in anhydrous glucosides excited by an external electric field. <i>AIP Advances</i> , 2019, 9, 125015.	1.3	0
52	TIME-AVERAGED DEUTERIUM NMR STUDIES OF THE DYNAMIC PROPERTIES FOR A LOW MOLAR MASS NEMATIC. , 2010, , 193-222.		0