

Ivan Dozov

List of Publications by Year in descending order

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67
papers

2,210
citations

279798

23
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223800

46
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67
all docs

67
docs citations

67
times ranked

1661
citing authors

#	ARTICLE	IF	CITATIONS
1	On the spontaneous symmetry breaking in the mesophases of achiral banana-shaped molecules. <i>Europhysics Letters</i> , 2001, 56, 247-253.	2.0	465
2	Outstanding Magnetic Properties of Nematic Suspensions of Goethite (FeOOH) Nanorods. <i>Physical Review Letters</i> , 2002, 88, 125507.	7.8	162
3	Order Electricity and Surface Orientation in Nematic Liquid Crystals. <i>Physical Review Letters</i> , 1986, 56, 2056-2059.	7.8	145
4	The temperature dependence of the heliconical tilt angle in the twist-bend nematic phase of the odd dimer CB7CB. <i>Journal of Materials Chemistry C</i> , 2015, 3, 318-328.	5.5	128
5	Liquid-Crystalline Nematic Phase in Aqueous Suspensions of a Disk-Shaped Natural Beidellite Clay. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15858-15869.	2.6	124
6	A liquid-crystalline hexagonal columnar phase in highly-dilute suspensions of imogolite nanotubes. <i>Nature Communications</i> , 2016, 7, 10271.	12.8	105
7	Electric-Field-Induced Perfect Anti-Nematic Order in Isotropic Aqueous Suspensions of a Natural Beidellite Clay. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7751-7765.	2.6	92
8	Surface frustration and texture instability in smectic-A liquid crystals. <i>Physical Review A</i> , 1990, 41, 2252-2255.	2.5	60
9	Memory-Free Conic Anchoring of Liquid Crystals on a Solid Substrate. <i>Physical Review Letters</i> , 2000, 84, 3871-3874.	7.8	60
10	Local distortion energy and coarse-grained elasticity of the twist-bend nematic phase. <i>Soft Matter</i> , 2016, 12, 574-580.	2.7	59
11	The complex phase behaviour of suspensions of goethite (FeOOH) nanorods in a magnetic field. <i>Faraday Discussions</i> , 2005, 128, 271-283.	3.2	55
12	Photoinduced orientation in poly(vinylcinnamate) and poly(7-methacryloyloxycoumarin) thin films and the consequences on liquid crystal alignment. <i>Liquid Crystals</i> , 2000, 27, 329-340.	2.2	51
13	Liquid-crystalline properties of aqueous suspensions of natural clay nanosheets. <i>Liquid Crystals Reviews</i> , 2013, 1, 110-126.	4.1	49
14	Anchoring Screening of Defects Interaction in a Nematic Liquid Crystal. <i>Physical Review Letters</i> , 2002, 89, 225501.	7.8	47
15	Molecular orientational motions in liquid crystals: A study by Raman and infrared band-shape analysis. <i>Physical Review A</i> , 1986, 33, 4132-4142.	2.5	42
16	Effect of the rotational depolarization in fluorescent measurements of the nematic order parameters. <i>Journal of Luminescence</i> , 1980, 22, 69-78.	3.1	36
17	Zenithal gliding of the easy axis of a nematic liquid crystal. <i>Physical Review E</i> , 2004, 70, 050701.	2.1	33
18	Tailoring Highly Oriented and Micropatterned Clay/Polymer Nanocomposites by Applying an a.c. Electric Field. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4296-4301.	8.0	32

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19	In-situ SAXS Study of Aqueous Clay Suspensions Submitted to Alternating Current Electric Fields. Journal of Physical Chemistry B, 2012, 116, 13516-13524.	2.6	32
20	Molecular biaxiality and reorientational correlation functions in nematic phases: Theory. Physical Review A, 1987, 36, 2870-2878.	2.5	30
21	Electric-Field Alignment of Chitin Nanorod-Siloxane Oligomer Reactive Suspensions. Langmuir, 2013, 29, 8208-8212.	3.5	30
22	Strong orientational coupling in two-component suspensions of rod-like nanoparticles. Soft Matter, 2013, 9, 5061.	2.7	26
23	Melted-Grain-Boundary Phase in Chiral Smectic-Liquid Crystals near the Triple N [*] A [*] C [*] Point. Physical Review Letters, 1995, 74, 4245-4248.	7.8	24
24	Biaxiality-driven twist-bend to splay-bend nematic phase transition induced by an electric field. Science Advances, 2020, 6, .	10.3	23
25	On the sign of flexoelectric coefficients in nematic liquid crystals. Ferroelectrics, Letters Section, 1984, 2, 135-141.	1.0	21
26	Quantized Grain Boundaries in Bent Smectic- <i>A</i> Liquid Crystal. Europhysics Letters, 1994, 28, 25-30.	2.0	18
27	Electric-field-induced shape transition of nematic tactoids. Physical Review E, 2017, 96, 022706.	2.1	18
28	Setting things straight in “The twist-bend nematic: a case of mistaken identity”™. Liquid Crystals, 2020, 47, 2098-2115.	2.2	18
29	Molecular biaxiality and reorientational correlation functions in nematic phases: Infrared spectroscopy. Physical Review A, 1987, 36, 2879-2884.	2.5	16
30	Determining the S ₂ and S ₄ order parameters through fluorescent measurements. Physics Letters, Section A: General, Atomic and Solid State Physics, 1977, 60, 34-36.	2.1	15
31	Technique for Local Pretilt Measurement in Nematic Liquid Crystals. Japanese Journal of Applied Physics, 2001, 40, L349-L351.	1.5	13
32	Temperature dependence of the molecular reorientational dynamics in nematic and isotropic EBBA and 5CB by fluorescent probe depolarization spectroscopy. Liquid Crystals, 1989, 4, 241-252.	2.2	12
33	Insertion of Gold Nanoparticles in Fluid Mesophases: Size Filtering and Control of Interactions. Journal of Physical Chemistry C, 2011, 115, 17682-17687.	3.1	11
34	Magnetic-field-induced nematic-nematic phase separation and droplet formation in colloidal goethite. Journal of Physics Condensed Matter, 2011, 23, 194108.	1.8	11
35	Chemical-Physical Characterization of a Binary Mixture of a Twist Bend Nematic Liquid Crystal with a Smectogen. Crystals, 2020, 10, 1110.	2.2	11
36	Reflective bistable nematic displays (BiNem [®]) fabricated by standard manufacturing equipment. Journal of the Society for Information Display, 2003, 11, 217.	2.1	10

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37	Magnetic Field Induced Director Reorientation in the Nematic Cell with Time-Dependent Anchoring Due to Adsorption/Desorption of LC Molecules. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 439, 1/[1867]-22/[1888].	0.9	10
38	Surface Polarization and Flexoelectricity in Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 329, 605-615.	0.3	9
39	Director Reorientation in a Cell with Time-Dependent Anchoring Due To Adsorption/Desorption of LC Molecules. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 422, 173-183.	0.9	9
40	Development of BinemÂ® displays on flexible plastic substrates. <i>Journal of the Society for Information Display</i> , 2005, 13, 193.	2.1	9
41	Comment on "Time Resolved Experimental Analysis of the Electric Field Induced Biaxial Order Reconstruction in Nematics". <i>Physical Review Letters</i> , 2006, 96, 019801; discussion 019802.	7.8	9
42	Hybrid Nanocomposites with Tunable Alignment of the Magnetic Nanorod Filler. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1583-1588.	8.0	8
43	Liquid-Crystalline Suspensions of Photosensitive Paramagnetic CeF ₃ Nanodiscs. <i>Langmuir</i> , 2019, 35, 16256-16265.	3.5	7
44	Probing permanent dipoles in CdSe nanoplatelets with transient electric birefringence. <i>Nanoscale</i> , 2020, 12, 11040-11054.	5.6	7
45	Development of low anchoring strength liquid crystal mixtures for bistable nematic displays. <i>Journal of Information Display</i> , 2005, 6, 1-5.	4.0	6
46	Orientalional Order Parameters of Some 4-Cyano 4'-n-Alkoxybiphenyls. <i>Spectroscopy Letters</i> , 1982, 15, 265-274.	1.0	5
47	Corrections to orientational order parameters obtained by fluorescence measurements. <i>Journal of Molecular Liquids</i> , 1984, 29, 147-160.	4.9	5
48	Dispersions of Goethite Nanorods in Aprotic Polar Solvents. <i>Materials</i> , 2017, 10, 1191.	2.9	5
49	Fr�edericksz-Like Transition in a Biaxial Smectic- A Phase. <i>Physical Review X</i> , 2021, 11, .	8.9	5
50	Vibrational and rotational contribution to IR and Raman bands of uniaxially aligned systems. <i>Journal of Molecular Structure</i> , 1988, 173, 173-184.	3.6	4
51	Two-stage model for molecular orientational relaxation in liquid crystals. <i>Liquid Crystals</i> , 1990, 8, 727-738.	2.2	4
52	Optical and X-ray scattering studies of the electric field-induced orientational order in colloidal suspensions of pigment nanorods. <i>Journal of Molecular Liquids</i> , 2018, 267, 286-296.	4.9	4
53	IR and Raman bandshape analysis of rotational relaxation in ordered fluids. <i>Journal of Molecular Structure</i> , 1986, 141, 353-360.	3.6	3
54	New approaches to the interpretation of the elastic incoherent structure factor in aligned systems. <i>Journal of Molecular Liquids</i> , 1990, 45, 173-193.	4.9	3

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55	Translational contribution to incoherent neutron scattering in anisotropic fluids - new theoretical approach. <i>Journal of Molecular Liquids</i> , 1992, 51, 1-10.	4.9	3
56	Uncorrelated jumps model for molecular orientational relaxation in liquid crystals. <i>Journal of Molecular Structure</i> , 2007, 839, 84-89.	3.6	3
57	Memory versus elastic azimuthal anchoring of nematic on holographic gratings. <i>Journal of Molecular Structure</i> , 2004, 704, 329-332.	3.6	2
58	Elastic incoherent neutron scattering of rotational and translational dynamics in liquid crystals. <i>Journal of Molecular Structure</i> , 2006, 788, 7-15.	3.6	2
59	Phase transitions and orientational order parameters of N-(4-alkoxybenzylidene) 4-toluidines in their mesomorphic states. <i>Journal of Molecular Liquids</i> , 1985, 31, 177-192.	4.9	1
60	Uncorrelated jumps model for orientational relaxation in ordered fluids. <i>Journal of Molecular Liquids</i> , 1991, 48, 261-275.	4.9	1
61	Vibrational spectroscopy of rotational dynamics in aligned systems (stochastic and inertial regimes). <i>Journal of Molecular Liquids</i> , 1992, 53, 27-54.	4.9	1
62	Recollections of Professor Yuriy Reznikov. <i>Journal of Molecular Liquids</i> , 2018, 267, 11-28.	4.9	1
63	Dipole correlation functions and intermolecular torques in nematic phase of EBBA and PAA. <i>Acta Physica Hungarica</i> , 1984, 55, 63-68.	0.1	0
64	Rotational contribution to the vibrational bandshape of ordered systems. <i>Acta Physica Hungarica</i> , 1987, 61, 63-66.	0.1	0
65	Raman and resonance Raman scattering of rotational dynamics, orientational order and molecular geometry of thin organic films. <i>Journal of Molecular Structure</i> , 1992, 275, 55-64.	3.6	0
66	Nematic Bistable Device Using a Metastable Anti-Conical Surface Anchoring. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 560, 75-81.	0.9	0
67	BiNem® Displays: From Principles to Applications. , 0, , 469-510.		0