

Alexander N Zakhlevnykh

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Threshold magnetic fields and Fréedericksz transition in a ferronematic. Journal of Magnetism and Magnetic Materials, 2004, 269, 238-244.	1.0	41
2	Orientalional bistability and magneto-optical response in compensated ferronematic liquid crystals. Journal of Magnetism and Magnetic Materials, 2016, 401, 188-195.	1.0	32
3	Ferrocholesteric-ferronematic transition in an external magnetic field. Journal of Magnetism and Magnetic Materials, 1995, 146, 103-110.	1.0	30
4	Tricritical phenomena at the Fréedericksz transition in ferronematic liquid crystals. Physical Review E, 2010, 81, 051710.	0.8	29
5	Weak coupling effects and re-entrant transitions in ferronematic liquid crystals. Journal of Molecular Liquids, 2014, 198, 223-233.	2.3	27
6	Orientalional energy of anisometric particles in liquid-crystalline suspensions. Physical Review E, 2013, 88, 012511.	0.8	26
7	Mean-field description of the order-disorder phase transition in ferronematics. Soft Matter, 2013, 9, 177-184.	1.2	23
8	Magnetic field-induced orientational phases of ferronematics in shear flow. Journal of Magnetism and Magnetic Materials, 2008, 320, 1312-1321.	1.0	20
9	Magnetic field induced orientational transitions in soft compensated ferronematics. Phase Transitions, 2014, 87, 1-18.	0.6	18
10	Interplay between dipole and quadrupole modes of field influence in liquid-crystalline suspensions of ferromagnetic particles. Soft Matter, 2012, 8, 6493.	1.2	17
11	First Order Orientalional Transitions in Ferronematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2011, 540, 219-226.	0.4	16
12	Magnetically induced bistable behavior of ferronematic liquid crystals. Physical Review E, 2013, 88, 052503.	0.8	16
13	Magnetic properties of ferrocholesterics with soft particle anchoring. Journal of Magnetism and Magnetic Materials, 2000, 210, 279-288.	1.0	15
14	Freedericksz Transition in Compensated Ferronematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2012, 557, 60-72.	0.4	15
15	Magnetic field induced orientational transitions in liquid crystals doped with carbon nanotubes. Beilstein Journal of Nanotechnology, 2017, 8, 2807-2817.	1.5	15
16	Statistical Theory of Nematic Liquid Crystals Composed of Biaxial Ellipsoidal Particles. Molecular Crystals and Liquid Crystals, 1997, 293, 135-173.	0.3	13
17	On a simple molecular-statistical model of a liquid-crystal suspension of anisometric particles. Journal of Experimental and Theoretical Physics, 2016, 123, 908-917.	0.2	13
18	A simple model of liquid-crystalline magnetic suspension of anisometric particles. Journal of Magnetism and Magnetic Materials, 2017, 431, 62-65.	1.0	13

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19	Magnetic behavior of a ferronematic layer in an external magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 1987, 65, 173-176.	1.0	12
20	Magnetic segregation effect in liquid crystals doped with carbon nanotubes. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1464-1474.	1.5	10
21	Influence of the segregation effect on the magnetic and optical properties of a compensated ferronematic liquid crystal. <i>Technical Physics</i> , 2012, 57, 1208-1218.	0.2	9
22	Shear Flow of a Ferronematic in a Magnetic Field. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 475, 233-245.	0.4	8
23	Orientational bistability in ferronematic liquid crystals with negative diamagnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 393, 517-525.	1.0	8
24	Cholesteric-nematic transitions induced by a shear flow and a magnetic field. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 125, 679-690.	0.2	8
25	Cholesteric-nematic transition induced by a rotating magnetic field. <i>Journal of Molecular Liquids</i> , 2018, 263, 375-381.	2.3	8
26	Magnetic Fredericksz Transition in Ferronematic Layer Under Shear Flow. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 540, 135-144.	0.4	7
27	Reentrant Phase Transitions in Ferronematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 199-210.	0.4	7
28	Orientational dynamics of a ferronematic liquid crystal in a rotating magnetic field. <i>Journal of Experimental and Theoretical Physics</i> , 2015, 121, 541-552.	0.2	7
29	Dynamics of liquid-crystalline magnetic suspensions in a rotating magnetic field. <i>European Physical Journal E</i> , 2016, 39, 101.	0.7	7
30	Magnetic-field-induced stepwise director reorientation and untwisting of a planar cholesteric structure with finite anchoring energy. <i>Physical Review E</i> , 2016, 94, 042708.	0.8	7
31	Orientational Ordering of a Liquid-Crystal Suspension of Carbon Nanotubes in a Magnetic Field. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 127, 357-369.	0.2	7
32	One-Dimensional Structures in Ferrocholesteric Film with Weak Homeotropic Anchoring on the Layer Boundaries. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 367, 175-182.	0.3	6
33	Oscillations of the orientational structure of a ferronematic liquid crystal in an elliptically polarized rotating magnetic field. <i>Journal of Molecular Liquids</i> , 2017, 238, 359-369.	2.3	6
34	Influence of Ferromagnetic Carbon Nanotubes on Magnetic Transitions in Liquid Crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 127, 767-777.	0.2	6
35	Influence of shear flow on the Fredericksz transition in nematic liquid crystals. <i>Physical Review E</i> , 2006, 74, 041710.	0.8	5
36	Orientational transitions in a ferronematic layer with bistable anchoring at the boundary. <i>Technical Physics</i> , 2012, 57, 157-166.	0.2	5

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37	Analytical description of 2D magnetic Freedericksz transition in a rectangular cell of a nematic liquid crystal. <i>European Physical Journal E</i> , 2016, 39, 65.	0.7	5
38	Ferrocholestericâ€“ferronematic transitions induced by shear flow and magnetic field. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2552-2561.	1.5	5
39	Statistical theory of magnetic field induced phase transitions in negative diamagnetic anisotropy liquid crystals doped with carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2019, 287, 110901.	2.3	5
40	Effect of electric and magnetic fields on the orientation structure of a ferronematic liquid crystal. <i>Technical Physics</i> , 2014, 59, 1267-1276.	0.2	4
41	Orientalional transitions in antiferromagnetic liquid crystals. <i>Physics of the Solid State</i> , 2016, 58, 1906-1915.	0.2	4
42	Orientalional transitions in ferromagnetic liquid crystals with bistable coupling between colloidal particles and the matrix. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 123, 687-698.	0.2	3
43	Orientalional and Magnetic Behavior of a Colloidal Magnetic Suspension in a Cholesteric Liquid Crystal Matrix. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1994, 27, 89-99.	1.8	2
44	Tricritical phenomena in ferronematic liquid crystals. <i>Technical Physics</i> , 2012, 57, 1041-1050.	0.2	2
45	Magnetic-field induced orientational transition in a helicoidal liquid-crystalline antiferromagnet. <i>Physics of the Solid State</i> , 2016, 58, 2358-2366.	0.2	2
46	Reentrant phases in compensated ferrocholesterics. <i>Physics of the Solid State</i> , 2017, 59, 1867-1873.	0.2	2
47	Soft anchoring effect and magnetic field induced transitions in homeotropic cholesteric liquid crystal layer. <i>Journal of Molecular Liquids</i> , 2018, 267, 229-241.	2.3	2
48	Magnetic field induced transitions in soft compensated ferrocholesteric liquid crystals. <i>Journal of Molecular Liquids</i> , 2018, 267, 398-405.	2.3	2
49	Weak Coupling Effect on the Magnetic Freedericksz Transition in a Ferronematic Liquid Crystal. <i>Physics of the Solid State</i> , 2018, 60, 1462-1467.	0.2	2
50	Effect of rotating magnetic field on orientational dynamics of ferrocholesteric liquid crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 468, 287-293.	1.0	2
51	The influence of the flexoelectric effect on the orientational transitions in ferronematic liquid crystals. <i>Technical Physics</i> , 2015, 60, 1284-1298.	0.2	1
52	Spatial distortions of the orientational structure of a ferronematic in the presence of external fields. <i>Technical Physics</i> , 2016, 61, 531-540.	0.2	1
53	Orientalional Instability and Hysteresis Phenomena in a Ferronematic Liquid Crystal in a Magnetic Field. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 126, 848-858.	0.2	1
54	The effect of a modified surface anchoring potential on the cholestericâ€“nematic transition. <i>Journal of Molecular Liquids</i> , 2019, 293, 111450.	2.3	1

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55	Optical Transmission Factor of a Ferronematic Liquid Crystal Under Magnetic Field Induced Orientational Transitions. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 220-232.	0.4	0