Alexander N Zakhlevnykh

List of Publications by Year
in descending order

55	558	566801 15	713013 21
papers	citations	h-index	g-index

55	55	55	153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effect of a modified surface anchoring potential on the cholestericâ€“nematic transition. Journal of Molecular Liquids, 2019, 293, 111450.	2.3	1
2	Magnetic segregation effect in liquid crystals doped with carbon nanotubes. Beilstein Journal of Nanotechnology, 2019, 10, 1464-1474.	1.5	10
3	Statistical theory of magnetic field induced phase transitions in negative diamagnetic anisotropy liquid crystals doped with carbon nanotubes. Journal of Molecular Liquids, 2019, 287, 110901.	2.3	5
4	Soft anchoring effect and magnetic field induced transitions in homeotropic cholesteric liquid crystal layer. Journal of Molecular Liquids, 2018, 267, 229-241.	2.3	2
5	Cholestericâ€“nematic transition induced by a rotating magnetic field. Journal of Molecular Liquids, 2018, 263, 375-381.	2.3	8
6	Magnetic field induced transitions in soft compensated ferrocholesteric liquid crystals. Journal of Molecular Liquids, 2018, 267, 398-405.	2.3	2
7	Influence of Ferromagnetic Carbon Nanotubes on Magnetic Transitions in Liquid Crystals. Journal of Experimental and Theoretical Physics, 2018, 127, 767-777.	0.2	6
8	Orientational Ordering of a Liquid-Crystal Suspension of Carbon Nanotubes in a Magnetic Field. Journal of Experimental and Theoretical Physics, 2018, 127, 357-369.	0.2	7
9	Orientational Instability and Hysteresis Phenomena in a Ferronematic Liquid Crystal in a Magnetic Field. Journal of Experimental and Theoretical Physics, 2018, 126, 848-858.	0.2	1
10	Weak Coupling Effect on the Magnetic Freedericksz Transition in a Ferronematic Liquid Crystal. Physics of the Solid State, 2018, 60, 1462-1467.	0.2	2
11	Effect of rotating magnetic field on orientational dynamics of ferrocholesteric liquid crystals. Journal of Magnetism and Magnetic Materials, 2018, 468, 287-293.	1.0	2
12	Oscillations of the orientational structure of a ferronematic liquid crystal in an elliptically polarized rotating magnetic field. Journal of Molecular Liquids, 2017, 238, 359-369.	2.3	6
13	Cholestericâ€“nematic transitions induced by a shear flow and a magnetic field. Journal of Experimental and Theoretical Physics, 2017, 125, 679-690.	0.2	8
14	Reentrant phases in compensated ferrocholesterics. Physics of the Solid State, 2017, 59, 1867-1873.	0.2	2
15	A simple model of liquid-crystalline magnetic suspension of anisometric particles. Journal of Magnetism and Magnetic Materials, 2017, 431, 62-65.	1.0	13
16	Ferrocholestericâ€“ferronematic transitions induced by shear flow and magnetic field. Beilstein Journal of Nanotechnology, 2017, 8, 2552-2561.	1.5	5
17	Magnetic field induced orientational transitions in liquid crystals doped with carbon nanotubes. Beilstein Journal of Nanotechnology, 2017, 8, 2807-2817.	1.5	15
18	On a simple molecularâ€“statistical model of a liquid-crystal suspension of anisometric particles. Journal of Experimental and Theoretical Physics, 2016, 123, 908-917.	0.2	13

#	Article	IF	Citations
19	Orientational transitions in ferromagnetic liquid crystals with bistable coupling between colloidal particles and the matrix. Journal of Experimental and Theoretical Physics, 2016, 123, 687-698.	0.2	3
20	Spatial distortions of the orientational structure of a ferronematic in the presence of external fields. Technical Physics, 2016, 61, 531-540.	0.2	1
21	Magnetic-field induced orientational transition in a helicoidal liquid-crystalline antiferromagnet. Physics of the Solid State, 2016, 58, 2358-2366.	0.2	2
22	Orientational transitions in antiferromagnetic liquid crystals. Physics of the Solid State, 2016, 58, 1906-1915.	0.2	4
23	Dynamics of liquid-crystalline magnetic suspensions in a rotating magnetic field. European Physical Journal E, 2016, 39, 101.	0.7	7
24	Magnetic-field-induced stepwise director reorientation and untwisting of a planar cholesteric structure with finite anchoring energy. Physical Review E, 2016, 94, 042708.	0.8	7
25	Analytical description of 2D magnetic Freedericksz transition in a rectangular cell of a nematic liquid crystal. European Physical Journal E, 2016, 39, 65.	0.7	5
26	Orientational bistability and magneto-optical response in compensated ferronematic liquid crystals. Journal of Magnetism and Magnetic Materials, 2016, 401, 188-195.	1.0	32
27	Orientational dynamics of a ferronematic liquid crystal in a rotating magnetic field. Journal of Experimental and Theoretical Physics, 2015, 121, 541-552.	0.2	7
28	Orientational bistability in ferronematic liquid crystals with negative diamagnetic anisotropy. Journal of Magnetism and Magnetic Materials, 2015, 393, 517-525.	1.0	8
29	The influence of the flexoelectric effect on the orientational transitions in ferronematic liquid crystals. Technical Physics, 2015, 60, 1284-1298.	0.2	1
30	Effect of electric and magnetic fields on the orientation structure of a ferronematic liquid crystal. Technical Physics, 2014, 59, 1267-1276.	0.2	4
31	Magnetic field induced orientational transitions in soft compensated ferronematics. Phase Transitions, 2014, 87, 1-18.	0.6	18
32	Weak coupling effects and re-entrant transitions in ferronematic liquid crystals. Journal of Molecular Liquids, 2014, 198, 223-233.	2.3	27
33	Magnetically induced bistable behavior of ferronematic liquid crystals. Physical Review E, 2013, 88, 052503.	0.8	16
34	Orientational energy of anisometric particles in liquid-crystalline suspensions. Physical Review E, 2013, 88, 012511.	0.8	26
35	Mean-field description of the orderâ€“disorder phase transition in ferronematics. Soft Matter, 2013, 9, 177-184.	1.2	23
36	Freedericksz Transition in Compensated Ferronematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2012, 557, 60-72.	0.4	15

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37	Reentrant Phase Transitions in Ferronematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2012, 553, 199-210.	0.4	7
38	Influence of the segregation effect on the magnetic and optical properties of a compensated ferronematic liquid crystal. Technical Physics, 2012, 57, 1208-1218.	0.2	9
39	Tricritical phenomena in ferronematic liquid crystals. Technical Physics, 2012, 57, 1041-1050.	0.2	2
40	Optical Transmission Factor of a Ferronematic Liquid Crystal Under Magnetic Field Induced Orientational Transitions. Molecular Crystals and Liquid Crystals, 2012, 553, 220-232.	0.4	0
41	Interplay between dipole and quadrupole modes of field influence in liquid-crystalline suspensions of ferromagnetic particles. Soft Matter, 2012, 8, 6493.	1.2	17
42	Orientational transitions in a ferronematic layer with bistable anchoring at the boundary. Technical Physics, 2012, 57, 157-166.	0.2	5
43	First Order Orientational Transitions in Ferronematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2011, 540, 219-226.	0.4	16
44	Magnetic Freedericksz Transition in Ferronematic Layer Under Shear Flow. Molecular Crystals and Liquid Crystals, 2011, 540, 135-144.	0.4	7
45	Tricritical phenomena at the FrÃ©edericksz transition in ferronematic liquid crystals. Physical Review E, 2010, 81, 051710.	0.8	29
46	Magnetic field-induced orientational phases of ferronematics in shear flow. Journal of Magnetism and Magnetic Materials, 2008, 320, 1312-1321.	1.0	20
47	Shear Flow of a Ferronematic in a Magnetic Field. Molecular Crystals and Liquid Crystals, 2007, 475, 233-245.	0.4	8
48	Influence of shear flow on the FrÃ©edericksz transition in nematic liquid crystals. Physical Review E, 2006, 74, 041710.	0.8	5
49	Threshold magnetic fields and FrÃ©edericksz transition in a ferronematic. Journal of Magnetism and Magnetic Materials, 2004, 269, 238-244.	1.0	41
50	One-Dimensional Structures in Ferrocholesteric Film with Weak Homeotropic Anchoring on the Layer Boundaries. Molecular Crystals and Liquid Crystals, 2001, 367, 175-182.	0.3	6
51	Magnetic properties of ferrocholesterics with soft particle anchoring. Journal of Magnetism and Magnetic Materials, 2000, 210, 279-288.	1.0	15
52	Statistical Theory of Nematic Liquid Crystals Composed of Biaxial Ellipsoidal Particles. Molecular Crystals and Liquid Crystals, 1997, 293, 135-173.	0.3	13
53	Ferrocholesteric-ferronematic transition in an external magnetic field. Journal of Magnetism and Magnetic Materials, 1995, 146, 103-110.	1.0	30
54	Orientational and Magnetic Behavior of a Colloidal Magnetic Suspension in a Cholesteric Liquid Crystal Matrix. International Journal of Polymeric Materials and Polymeric Biomaterials, 1994, 27, 89-99.	1.8	2

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55	Magnetic behavior of a ferronematic layer in an external magnetic field. Journal of Magnetism and Magnetic Materials, 1987, 65, 173-176.	1.0	12