Vladimir Dolganov

List of Publications by Year
in descending order

52	385	840119 11	839053 18
papers	citations	h-index	g-index

52	52	52	204
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phase Transformations And Dynamics Of 4-Cyano-4â€²-Pentylbiphenyl (5cb) By Nuclear Magnetic Resonance, Analysis Differential Scanning Calorimetry, And Wideangle X-Ray Diffraction Analysis. Molecular Crystals and Liquid Crystals, 2002, 382, 97-111.	0.4	46
2	Two-dimensional ordering of inclusions in smectic C phase. JETP Letters, 2002, 75, 482-486.	0.4	39
3	Formation of two-dimensional crystal-like structures from inclusions in smectic C films. JETP Letters, 2002, 76, 351-354.	0.4	26
4	Ferroelectricity-induced effects in interaction and self-organization of inclusions in smectic membranes. Europhysics Letters, 2006, 76, 250-256.	0.7	23
5	Coalescence of viscous two-dimensional smectic islands. Physical Review E, 2019, 99, 062702.	0.8	23
6	Interaction of surfaces in smectic membranes and their instability near thinning transitions. Physical Review E, 2005, 72, 031713.	0.8	20
7	Description of optical properties of cholesteric photonic liquid crystals based on Maxwell equations and Kramers-Kronig relations. Physical Review E, 2013, 87, .	0.8	20
8	Free-standing smectic films at high temperature. Liquid Crystals, 2002, 29, 505-513.	0.9	14
9	The effect of spontaneous polarization on two-dimensional elasticity of smectic liquid crystals. Journal of Experimental and Theoretical Physics, 2013, 116, 1043-1049.	0.2	13
10	Formation of string defects at thinning transitions in smectic-C*free-standing films. Physical Review E, 2000, 62, R5899-R5902.	0.8	12
11	Dynamics of capillary coalescence and breakup: Quasi-two-dimensional nematic and isotropic droplets. Physical Review E, 2021, 104, 014702.	0.8	12
12	Ferrielectric smectic phase with a layer-by-layer change of the two-component order parameter. JETP Letters, 2008, 87, 253-257.	0.4	11
13	Coalescence of holes in two-dimensional free-standing smectic films. Physical Review E, 2020, 101, 052701.	0.8	10
14	Formation and structure of a soliton in an antiferroelectric liquid crystal in an electric field. JETP Letters, 2009, 89, 161-166.	0.4	9
15	Collapse of islands in freely suspended smectic nanofilms. JETP Letters, 2017, 106, 229-233.	0.4	8
16	Stability of a free-standing liquid-crystal film: The measurement of the interaction between the film surfaces. Journal of Experimental and Theoretical Physics, 2007, 105, 665-672.	0.2	7
17	Dimer structures formed in smectic films by inclusions with parallel and antiparallel topological dipole moments. JETP Letters, 2009, 90, 382-386.	0.4	6
18	Behavior of inclusions with different value and orientation of topological dipoles in ferroelectric smectic films. Journal of Experimental and Theoretical Physics, 2009, 109, 169-175.	0.2	6

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19	Photon Density of States in a Cholesteric Photonic Crystal. JETP Letters, 2018, 108, 170-174.	0.4	6
20	Quasi-two-dimensional coalescence of nematic and isotropic droplets and Rayleighâ€“Plateau instability in flat optical cells. Soft Matter, 2021, 18, 126-136.	1.2	6
21	Topological defects in smectic islands in freely suspended films. JETP Letters, 2015, 101, 453-458.	0.4	5
22	Dynamics of island-meniscus coalescence in free-standing smectic films. Soft Matter, 2020, 16, 8506-8511.	1.2	5
23	LAYER-BY-LAYER MELTING OF FREE-STANDING SMECTIC FILMS ABOVE SmA - ISOTROPIC TRANSITION. Ferroelectrics, 1996, 181, 179-186.	0.3	4
24	Orientational action of edge dislocations on the director field in antiferroelectric smectic-CA*films. Physical Review E, 2017, 95, 012711.	0.8	4
25	Coalescence of Islands of Different Thicknesses in Smectic Nanofilms. JETP Letters, 2019, 110, 545-550.	0.4	4
26	Spectral and Polarization Characteristics of the Light Passing through a Cholesteric Photonic Crystal. Journal of Experimental and Theoretical Physics, 2020, 130, 790-796.	0.2	4
27	Nonchiral ferroelectric smectic-C films. JETP Letters, 1998, 67, 856-862.	0.4	3
28	Two-stage crystallization on the surface of smectic nanofilms. JETP Letters, 2011, 93, 731-735.	0.4	3
29	Temperature dependence of the photonic bandgap and the orientational order parameter for a cholesteric photonic crystal. Journal of Experimental and Theoretical Physics, 2014, 118, 891-895.	0.2	3
30	Linear defects forming the ground state of polar free standing smectic-C* films. Soft Matter, 2018, 14, 7174-7179.	1.2	3
31	Length scale dependence of chiral symmetry breaking in free-standing films of achiral smectic C. JETP Letters, 1996, 64, 32-36.	0.4	2
32	Surface ordering near the smectic-A-smectic-C transition in thin, free-standing, liquid-crystal films. Journal of Experimental and Theoretical Physics, 1997, 84, 522-524.	0.2	2
33	Structure of Ï€- and 2Ï€-Walls in Smectic films. JETP Letters, 2012, 96, 317-321.	0.4	2
34	Photonic liquid crystals: Optical properties and their dependence on light polarization and temperature. Physics of the Solid State, 2013, 55, 1101-1104.	0.2	2
35	Anomalies of a meniscus of microinclusions in freely suspended smectic films. JETP Letters, 2015, 102, 242-247.	0.4	2
36	Polar liquid crystals with multilayer ordering. JETP Letters, 2015, 101, 444-448.	0.4	2

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37	Chain structures and clusters of particles with the mixed dipoleâ€“quadrupole interaction in smectic freely suspended nanofilms. JETP Letters, 2016, 104, 263-268.	0.4	2
38	Smectic islands in antiferroelectric nanofilms. Journal of Experimental and Theoretical Physics, 2017, 125, 709-713.	0.2	2
39	Effect of Heat Treatment on Water Vapor Adsorption by Opal Structures and Their Effective Refractive Index. Inorganic Materials, 2019, 55, 143-148.	0.2	2
40	Topological defects in smectic islands formed in antiferroelectric freestanding nanofilms. Surface Innovations, 2019, 7, 168-173.	1.4	2
41	Transient hexagonal structures in sheared emulsions of isotropic inclusions on smectic bubbles in microgravity conditions. Scientific Reports, 2021, 11, 19144.	1.6	2
42	Meniscus-Induced Thinning of Smectic Nanofilms. JETP Letters, 2022, 115, 208-212.	0.4	2
43	Free-Standing Smectic Films Above SmA-N, SmA-Iso Transitions. Molecular Crystals and Liquid Crystals, 1997, 303, 193-207.	0.3	1
44	Phase transition to anticlinic texture in free-standing smectic c films. Journal of Experimental and Theoretical Physics, 2001, 93, 533-541.	0.2	1
45	Structures and orientational transitions in thin smectic films of tilted hexatic. Journal of Experimental and Theoretical Physics, 2006, 102, 616-624.	0.2	1
46	Step-by-step first order antiferroelectric-paraelectric transition induced by frustration and electric field. JETP Letters, 2014, 99, 191-195.	0.4	1
47	Inverse opal based on a polymer filler and transformation of its optical characteristics. Physics of the Solid State, 2014, 56, 746-750.	0.2	1
48	Influence of the Surface Orientation on the Spectral Characteristics of Liquid-Crystal Photonic Crystals. Journal of Surface Investigation, 2021, 15, 829-832.	0.1	1
49	Gap Reduction of C60 and C70 at High Pressure. Molecular Crystals and Liquid Crystals, 1994, 256, 915-920.	0.3	0
50	Experimental indication of macroscopic polarization parallel to the tilt plane in free-standing films of ferroelectric liquid crystals 8SI* and DOBAMBC. Journal of Experimental and Theoretical Physics, 1999, 89, 713-716.	0.2	0
51	Electric-field-induced unwinding of ferroelectric helix in thin smectic C* layers with soft and rigid anchoring of molecules. Journal of Experimental and Theoretical Physics, 2008, 107, 526-531.	0.2	0
52	Surface 2Ї€-walls in polar free-standing smectic films. JETP Letters, 2015, 101, 754-759.	0.4	0