

Vladimir Dolganov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

326
citations

10
h-index

16
g-index

52
ext. papers

350
ext. citations

1.5
avg, IF

3.35
L-index

#	Paper	IF	Citations
52	Meniscus-Induced Thinning of Smectic Nanofilms. <i>JETP Letters</i> , 2022 , 115, 208-212	1.2	
51	Quasi-two-dimensional coalescence of nematic and isotropic droplets and Rayleigh-Plateau instability in flat optical cells. <i>Soft Matter</i> , 2021 ,	3.6	1
50	Influence of the Surface Orientation on the Spectral Characteristics of Liquid-Crystal Photonic Crystals. <i>Journal of Surface Investigation</i> , 2021 , 15, 829-832	0.5	0
49	Dynamics of capillary coalescence and breakup: Quasi-two-dimensional nematic and isotropic droplets. <i>Physical Review E</i> , 2021 , 104, 014702	2.4	4
48	Transient hexagonal structures in sheared emulsions of isotropic inclusions on smectic bubbles in microgravity conditions. <i>Scientific Reports</i> , 2021 , 11, 19144	4.9	0
47	Coalescence of holes in two-dimensional free-standing smectic films. <i>Physical Review E</i> , 2020 , 101, 052701	4.1	6
46	Spectral and Polarization Characteristics of the Light Passing through a Cholesteric Photonic Crystal. <i>Journal of Experimental and Theoretical Physics</i> , 2020 , 130, 790-796	1	2
45	Dynamics of island-meniscus coalescence in free-standing smectic films. <i>Soft Matter</i> , 2020 , 16, 8506-8511	3.6	2
44	Coalescence of viscous two-dimensional smectic islands. <i>Physical Review E</i> , 2019 , 99, 062702	2.4	14
43	Effect of Heat Treatment on Water Vapor Adsorption by Opal Structures and Their Effective Refractive Index. <i>Inorganic Materials</i> , 2019 , 55, 143-148	0.9	2
42	Topological defects in smectic islands formed in antiferroelectric freestanding nanofilms. <i>Surface Innovations</i> , 2019 , 7, 168-173	1.9	1
41	Coalescence of Islands of Different Thicknesses in Smectic Nanofilms. <i>JETP Letters</i> , 2019 , 110, 545-550	1.2	3
40	Linear defects forming the ground state of polar free standing smectic-C* films. <i>Soft Matter</i> , 2018 , 14, 7174-7179	3.6	3
39	Photon Density of States in a Cholesteric Photonic Crystal. <i>JETP Letters</i> , 2018 , 108, 170-174	1.2	3
38	Orientalional action of edge dislocations on the director field in antiferroelectric smectic-C _A [*] films. <i>Physical Review E</i> , 2017 , 95, 012711	2.4	4
37	Smectic islands in antiferroelectric nanofilms. <i>Journal of Experimental and Theoretical Physics</i> , 2017 , 125, 709-713	1	2
36	Collapse of islands in freely suspended smectic nanofilms. <i>JETP Letters</i> , 2017 , 106, 229-233	1.2	8

35	Chain structures and clusters of particles with the mixed dipole-quadrupole interaction in smectic freely suspended nanofilms. <i>JETP Letters</i> , 2016 , 104, 263-268	1.2	2
34	Polar liquid crystals with multilayer ordering. <i>JETP Letters</i> , 2015 , 101, 444-448	1.2	2
33	Topological defects in smectic islands in freely suspended films. <i>JETP Letters</i> , 2015 , 101, 453-458	1.2	4
32	Surface π -walls in polar free-standing smectic films. <i>JETP Letters</i> , 2015 , 101, 754-759	1.2	
31	Anomalies of a meniscus of microinclusions in freely suspended smectic films. <i>JETP Letters</i> , 2015 , 102, 242-247	1.2	2
30	Temperature dependence of the photonic bandgap and the orientational order parameter for a cholesteric photonic crystal. <i>Journal of Experimental and Theoretical Physics</i> , 2014 , 118, 891-895	1	3
29	Step-by-step first order antiferroelectric-paraelectric transition induced by frustration and electric field. <i>JETP Letters</i> , 2014 , 99, 191-195	1.2	1
28	Inverse opal based on a polymer filler and transformation of its optical characteristics. <i>Physics of the Solid State</i> , 2014 , 56, 746-750	0.8	1
27	Photonic liquid crystals: Optical properties and their dependence on light polarization and temperature. <i>Physics of the Solid State</i> , 2013 , 55, 1101-1104	0.8	2
26	The effect of spontaneous polarization on two-dimensional elasticity of smectic liquid crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 116, 1043-1049	1	8
25	Description of optical properties of cholesteric photonic liquid crystals based on Maxwell equations and Kramers-Kronig relations. <i>Physical Review E</i> , 2013 , 87,	2.4	15
24	Structure of π -band π -walls in Smectic films. <i>JETP Letters</i> , 2012 , 96, 317-321	1.2	2
23	Two-stage crystallization on the surface of smectic nanofilms. <i>JETP Letters</i> , 2011 , 93, 731-735	1.2	3
22	Formation and structure of a soliton in an antiferroelectric liquid crystal in an electric field. <i>JETP Letters</i> , 2009 , 89, 161-166	1.2	9
21	Dimer structures formed in smectic films by inclusions with parallel and antiparallel topological dipole moments. <i>JETP Letters</i> , 2009 , 90, 382-386	1.2	6
20	Behavior of inclusions with different value and orientation of topological dipoles in ferroelectric smectic films. <i>Journal of Experimental and Theoretical Physics</i> , 2009 , 109, 169-175	1	6
19	Ferrielectric smectic phase with a layer-by-layer change of the two-component order parameter. <i>JETP Letters</i> , 2008 , 87, 253-257	1.2	11
18	Electric-field-induced unwinding of ferroelectric helix in thin smectic C* layers with soft and rigid anchoring of molecules. <i>Journal of Experimental and Theoretical Physics</i> , 2008 , 107, 526-531	1	

17	Stability of a free-standing liquid-crystal film: The measurement of the interaction between the film surfaces. <i>Journal of Experimental and Theoretical Physics</i> , 2007 , 105, 665-672	1	7
16	Ferroelectricity-induced effects in interaction and self-organization of inclusions in smectic membranes. <i>Europhysics Letters</i> , 2006 , 76, 250-256	1.6	22
15	Structures and orientational transitions in thin smectic films of tilted hexatic. <i>Journal of Experimental and Theoretical Physics</i> , 2006 , 102, 616-624	1	1
14	Interaction of surfaces in smectic membranes and their instability near thinning transitions. <i>Physical Review E</i> , 2005 , 72, 031713	2.4	20
13	Two-dimensional ordering of inclusions in smectic C phase. <i>JETP Letters</i> , 2002 , 75, 482-486	1.2	38
12	Formation of two-dimensional crystal-like structures from inclusions in smectic C films. <i>JETP Letters</i> , 2002 , 76, 351-354	1.2	26
11	Free-standing smectic films at high temperature. <i>Liquid Crystals</i> , 2002 , 29, 505-513	2.3	13
10	Phase Transformations And Dynamics Of 4-Cyano-4'-Pentylbiphenyl (5cb) By Nuclear Magnetic Resonance, Analysis Differential Scanning Calorimetry, And Wideangle X-Ray Diffraction Analysis. <i>Molecular Crystals and Liquid Crystals</i> , 2002 , 382, 97-111	0.5	44
9	Phase transition to anticlinic texture in free-standing smectic c films. <i>Journal of Experimental and Theoretical Physics</i> , 2001 , 93, 533-541	1	1
8	Formation of string defects at thinning transitions in smectic-C* free-standing films. <i>Physical Review E</i> , 2000 , 62, R5899-902	2.4	11
7	Experimental indication of macroscopic polarization parallel to the tilt plane in free-standing films of ferroelectric liquid crystals 8SI* and DOBAMBC. <i>Journal of Experimental and Theoretical Physics</i> , 1999 , 89, 713-716	1	
6	Nonchiral ferroelectric smectic-C films. <i>JETP Letters</i> , 1998 , 67, 856-862	1.2	3
5	Free-Standing Smectic Films Above SmA-N, SmA-Iso Transitions. <i>Molecular Crystals and Liquid Crystals</i> , 1997 , 303, 193-207		1
4	Surface ordering near the smectic-A-smectic-C transition in thin, free-standing, liquid-crystal films. <i>Journal of Experimental and Theoretical Physics</i> , 1997 , 84, 522-524	1	2
3	Length scale dependence of chiral symmetry breaking in free-standing films of achiral smectic C. <i>JETP Letters</i> , 1996 , 64, 32-36	1.2	1
2	LAYER-BY-LAYER MELTING OF FREE-STANDING SMECTIC FILMS ABOVE SmA - ISOTROPIC TRANSITION. <i>Ferroelectrics</i> , 1996 , 181, 179-186	0.6	4
1	Gap Reduction of C60 and C70 at High Pressure. <i>Molecular Crystals and Liquid Crystals</i> , 1994 , 256, 915-920		