

Pavel 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.

86 papers	676 citations	15 h-index	20 g-index
88 ext. papers	723 ext. citations	1.9 avg, IF	4.31 L-index

#	Paper	IF	Citations
86	Meniscus-Induced Thinning of Smectic Nanofilms. <i>JETP Letters</i> , 2022 , 115, 208-212	1.2	
85	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
84	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
83	Dynamics of capillary coalescence and breakup: Quasi-two-dimensional nematic and isotropic droplets. <i>Physical Review E</i> , 2021 , 104, 014702	2.4	4
82	Photonic properties of polymer-stabilized photosensitive cholesteric liquid crystal studied by combination of optical activity, transmission and fluorescence. <i>Liquid Crystals</i> , 2021 , 48, 1339-1348	2.3	2
81	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
80	Coalescence of holes in two-dimensional free-standing smectic films. <i>Physical Review E</i> , 2020 , 101, 052702	14	6
79	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
78	Dynamics of island-meniscus coalescence in free-standing smectic films. <i>Soft Matter</i> , 2020 , 16, 8506-8513	3.6	2
77	Optical properties and photonic density of states in one-dimensional and three-dimensional liquid-crystalline photonic crystals. <i>Liquid Crystals</i> , 2020 , 47, 231-237	2.3	6
76	Coalescence of viscous two-dimensional smectic islands. <i>Physical Review E</i> , 2019 , 99, 062702	2.4	14
75	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
74	Topological defects in smectic islands formed in antiferroelectric freestanding nanofilms. <i>Surface Innovations</i> , 2019 , 7, 168-173	1.9	1
73	Interaction and self-organization of inclusions in two-dimensional free-standing smectic films. <i>Liquid Crystals Reviews</i> , 2019 , 7, 1-29	2.8	12
72	Coalescence of Islands of Different Thicknesses in Smectic Nanofilms. <i>JETP Letters</i> , 2019 , 110, 545-550	1.2	3
71	Stripe instabilities in the menisci of free-standing smectic films: influence of the phase sequence of the mesogenic material. <i>Liquid Crystals</i> , 2018 , 45, 1415-1418	2.3	1
70	Linear defects forming the ground state of polar free standing smectic-C* films. <i>Soft Matter</i> , 2018 , 14, 7174-7179	3.6	3

69	Phase transitions in nanofilms of polar smectic liquid crystals with multilayer periodicity. <i>Physical Review E</i> , 2018 , 98,	2.4	1
68	Synclinic-anticlinic symmetry in the structure of multilayer polar liquid crystals. <i>Physical Review E</i> , 2018 , 98,	2.4	1
67	Photon Density of States in a Cholesteric Photonic Crystal. <i>JETP Letters</i> , 2018 , 108, 170-174	1.2	3
66	Orientational 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
65	Structures in the meniscus of smectic membranes: the role of dislocations?. <i>Soft Matter</i> , 2017 , 13, 3649-3663	3.6	12
64	Luminescence spectra of a cholesteric photonic crystal. <i>JETP Letters</i> , 2017 , 105, 657-660	1.2	8
63	Smectic islands in antiferroelectric nanofilms. <i>Journal of Experimental and Theoretical Physics</i> , 2017 , 125, 709-713	1	2
62	Collapse of islands in freely suspended smectic nanofilms. <i>JETP Letters</i> , 2017 , 106, 229-233	1.2	8
61	Photo- and thermo-induced variation of photonic properties of cholesteric liquid crystal containing azobenzene-based chiral dopant. <i>Molecular Crystals and Liquid Crystals</i> , 2016 , 633, 14-22	0.5	16
60	Two-dimensional hexagonal smectic structure formed by topological defects. <i>Physical Review E</i> , 2016 , 93, 032704	2.4	7
59	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
58	Report on the 13th European Conference on Liquid Crystals. <i>Liquid Crystals Today</i> , 2016 , 25, 40-41	1.9	
57	Density of photonic states in cholesteric liquid crystals. <i>Physical Review E</i> , 2015 , 91, 042509	2.4	18
56	Polar liquid crystals with multilayer ordering. <i>JETP Letters</i> , 2015 , 101, 444-448	1.2	2
55	Photonic crystal microspheres. <i>Optical Materials</i> , 2015 , 49, 208-212	3.3	9
54	Electric Field Induced Transitions in Polar Liquid Crystals with Frustrating Interlayer Interaction. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 610, 35-43	0.5	
53	Topological defects in smectic islands in freely suspended films. <i>JETP Letters</i> , 2015 , 101, 453-458	1.2	4
52	Surface 2D walls in polar free-standing smectic films. <i>JETP Letters</i> , 2015 , 101, 754-759	1.2	

51	Anomalies of a meniscus of microinclusions in freely suspended smectic films. <i>JETP Letters</i> , 2015 , 102, 242-247	1.2	2
50	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
49	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
48	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
47	Manifold configurations of the director field formed by topological defects in free and confined geometry in smectic films. <i>Physical Review E</i> , 2014 , 90, 062501	2.4	10
46	Transformation of the structure of smectic liquid crystals associated with frustration and the surface of ultrathin films. <i>JETP Letters</i> , 2014 , 100, 59-69	1.2	3
45	Synthesis of polymer - based inverted opal and transformation of its optical properties. <i>Advances in Nano Research</i> , 2014 , 2, 69-76		1
44	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
43	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
42	Electric-field-induced transition from helical to planar smectic structures without helix unwinding. <i>Physical Review E</i> , 2013 , 87, 062505	2.4	6
41	Landau theory description of polar smectic structures. <i>Liquid Crystals Reviews</i> , 2013 , 1, 127-149	2.8	13
40	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
39	Laws of formation of polar smectic phases under a frustrated interaction. <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 115, 1140-1150	1	7
38	Structure of Γ and 2Γ Walls in Smectic films. <i>JETP Letters</i> , 2012 , 96, 317-321	1.2	2
37	Field-induced transitions between multilayer phases of polar smectic liquid crystals. <i>Physical Review E</i> , 2012 , 86, 020701	2.4	13
36	Landau Model of the Phase Transitions for Description of Commensurate Polar Smectic Structures. <i>Ferroelectrics</i> , 2012 , 431, 21-31	0.6	4
35	Two-stage crystallization on the surface of smectic nanofilms. <i>JETP Letters</i> , 2011 , 93, 731-735	1.2	3
34	Manifold of polar smectic liquid crystals with spatial modulation of the order parameter. <i>Physical Review E</i> , 2011 , 83, 061705	2.4	17

33	Undulation instabilities in the meniscus of smectic membranes. <i>Physical Review Letters</i> , 2011 , 106, 117802	2.4	24
32	Stepwise transition of a topological defect from the smectic film to the boundary of a dipolar inclusion. <i>Physical Review E</i> , 2010 , 81, 031709	2.4	8
31	Unwinding of the antiferroelectric helix in an electric field. <i>Physical Review E</i> , 2010 , 81, 051704	2.4	3
30	Commensurate polar smectic structures with a two-component order parameter. <i>Physical Review E</i> , 2010 , 82, 040701	2.4	16
29	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
28	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
27	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
26	Ferroelectric 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
25	Field-induced structures and transitions in chiral antiferroelectric liquid crystals. <i>Physical Review E</i> , 2008 , 77, 031703	2.4	9
24	Influence of chirality on director configuration and droplet interaction in ferroelectric free-standing films. <i>Physical Review E</i> , 2008 , 78, 021701	2.4	17
23	Different mechanisms of nucleation and self-organization of droplets in ferroelectric smectic membranes. <i>European Physical Journal E</i> , 2008 , 25, 31-7	1.5	10
22	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	
21	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
20	Dispersion of light in opal photonic crystal. <i>Physics of the Solid State</i> , 2007 , 49, 1700-1703	0.8	5
19	Electronic and vibrational spectra of a gel of single-wall carbon nanotubes in an ionic liquid. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2007 , 71, 660-662	0.4	2
18	Shape of nematic droplets in smectic membranes. <i>Europhysics Letters</i> , 2007 , 78, 66001	1.6	22
17	Rearrangement of topological defects and anchoring on the inclusion boundary in ferroelectric smectic membranes. <i>Physical Review E</i> , 2007 , 75, 031706	2.4	24
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	Director configuration and self-organization of inclusions in two-dimensional smectic membranes. <i>Physical Review E</i> , 2006 , 73, 041706	2.4	24
14	Photonic stop bands in opal films and crystalline liquids 2006 ,		2
13	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
12	Interaction of surfaces in smectic membranes and their instability near thinning transitions. <i>Physical Review E</i> , 2005 , 72, 031713	2.4	20
11	Light-induced layer by layer thickening in photosensitive liquid crystal membranes. <i>Physical Review Letters</i> , 2005 , 95, 027802	7.4	10
10	2pi and pi walls in antiferroelectric smectic-C*A and smectic-C free-standing films. <i>Physical Review E</i> , 2004 , 70, 041708	2.4	10
9	Anticlinic-synclinic transitions in superthin free-standing smectic films. <i>JETP Letters</i> , 2004 , 80, 280-284	1.2	2
8	Collective behavior of light-induced droplets in smectic membranes. <i>European Physical Journal E</i> , 2003 , 12, 593-7	1.5	30
7	Orientational defects in freely suspended smectic C films. <i>JETP Letters</i> , 2003 , 77, 429-433	1.2	16
6	Structures and phase transitions in polar smectic liquid crystals. <i>Physical Review E</i> , 2003 , 67, 041716	2.4	58
5	Temperature-and field-induced transitions in free-standing films of an antiferroelectric liquid crystal. <i>Journal of Experimental and Theoretical Physics</i> , 2002 , 95, 728-735	1	4
4	Polar smectic subphases: Phase diagrams, structures and X-ray scattering. <i>JETP Letters</i> , 2002 , 76, 498-501	1.2	15
3	Structural transitions in thin free-standing films of an antiferroelectric liquid crystal exhibiting the smectic-C*(alpha) phase in the bulk sample. <i>Physical Review E</i> , 2002 , 65, 031702	2.4	14
2	Optical reflectivity study of synclinic and anticlinic structures in thin freely suspended smectic films. <i>European Physical Journal E</i> , 2000 , 3, 7-10	1.5	2
1	Birth and annihilation of topological defects on the nematic-isotropic interface during droplet coalescence. <i>Liquid Crystals</i> , 1-9	2.3	