

Victor Pergamenshchik

List of Publications by Year in descending order

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42
times ranked

460
citing authors

#	ARTICLE	IF	CITATIONS
1	Reply to "Comment on "Kosterlitz-Thouless-type caging-uncaging transition in a quasi-one-dimensional hard disk system". Physical Review Research, 2021, 3, .	3.6	0
2	Anchoring-induced nonmonotonic velocity versus temperature dependence of motile bacteria in a lyotropic nematic liquid crystal. Physical Review E, 2021, 104, 054603.	2.1	1
3	Analytical canonical partition function of a quasi-one-dimensional system of hard disks. Journal of Chemical Physics, 2020, 153, 144111.	3.0	8
4	Kosterlitz-Thouless-type caging-uncaging transition in a quasi-one-dimensional hard disk system. Physical Review Research, 2020, 2, .	3.6	9
5	Interaction of supramolecular aggregates and the enhanced optical torque on the director in a dye doped nematic liquid crystal. Soft Matter, 2019, 15, 8886-8895.	2.7	2
6	Statistical model of a flexible inextensible polymer chain: The effect of kinetic energy. Physical Review E, 2017, 95, 012501.	2.1	2
7	Elastic multipoles in the field of the nematic director distortions. European Physical Journal E, 2014, 37, 121.	1.6	12
8	Aggregation of Anthraquinone Dye Molecules in a Nematic Liquid Crystal. Molecular Crystals and Liquid Crystals, 2014, 589, 96-104.	0.9	3
9	Statistical mechanics of aggregation in anisotropic solvents: kinetic energy of aggregates and universal power-law behavior far from criticality. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P05016.	2.3	3
10	Stability and minimum size of colloidal clusters on a liquid-air interface. Physical Review E, 2012, 85, 021403.	2.1	10
11	Model of aggregation in anisotropic liquids: Two aggregation regimes with a universal power-law concentration dependence. Journal of the Korean Physical Society, 2012, 60, 333-348.	0.7	2
12	How small can an equilibrium colloidal cluster on a liquid-air interface be?. Journal of the Korean Physical Society, 2012, 60, 488-495.	0.7	0
13	Dipolar colloids in nematostatics: Tensorial structure, symmetry, different types, and their interaction. Physical Review E, 2011, 83, 021701.	2.1	55
14	Interaction of the Torque-Induced Elastic Charge and Elastic Dipole with a Wall in a Nematic Liquid Crystal. Molecular Crystals and Liquid Crystals, 2009, 508, 115/[477]-126/[488].	0.9	2
15	Colloid-wall interaction in a nematic liquid crystal: The mirror-image method of colloidal nematostatics. Physical Review E, 2009, 79, 021704.	2.1	29
16	Strong collective attraction in colloidal clusters on a liquid-air interface. Physical Review E, 2009, 79, 011407.	2.1	17
17	Stripe domains in a nearly homeotropic nematic liquid crystal: A bend escaped state at a nematic-smectic transition. Physical Review E, 2008, 77, 041703.	2.1	14
18	Effects of Anthraquinone Dye Aggregation on Selective Reflection Spectra of Cholesteric Liquid Crystal. Molecular Crystals and Liquid Crystals, 2008, 496, 202-211.	0.9	6

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19	Macroscopic Properties of the Nematic Phase of Boomerang-Shaped "C7": Evidence of Biaxiality. Journal of the Korean Physical Society, 2008, 52, 342-349.	0.7	21
20	Coulomb-like interaction in nematic emulsions induced by external torques exerted on the colloids. Physical Review E, 2007, 76, 011707.	2.1	35
21	Coexistence of Two Colloidal Crystals at the Nematic-Liquid-Crystal "Air Interface. Physical Review Letters, 2007, 98, 057801.	7.8	84
22	Elastic charge density representation of the interaction via the nematic director field. European Physical Journal E, 2007, 23, 161-174.	1.6	28
23	Selective light-induced desorption: The mechanism of photoalignment of liquid crystals at adsorbing solid surfaces. Europhysics Letters, 2006, 75, 448-454.	2.0	8
24	Hypothesis of Dye Aggregation in a Nematic Liquid Crystal: From Experiment to a Model of the Enhanced Light-Director Interaction. Molecular Crystals and Liquid Crystals, 2006, 454, 145/[547]-156/[558].	0.9	18
25	Sign inversion of the optical torque on the nematic director enhanced by anthraquinone dye dopants stable to the light action. Laser Physics Letters, 2006, 3, 531-535.	1.4	8
26	Full energy expression of a uniaxial nematic phase with spatially dependent density and order parameters: From microscopic to macroscopic theory. Physical Review E, 2002, 66, 051712.	2.1	7
27	Spontaneous deformations of the uniform director ground state induced by the surfacelike elastic terms in a thin planar nematic layer. Physical Review E, 2000, 61, 3936-3941.	2.1	29
28	Non-Debye Charge Screening and Adsorbed-Ion-Induced Anchoring Transition in a Nematic Liquid Crystal. Molecular Crystals and Liquid Crystals, 2000, 352, 1-8.	0.3	3
29	Non-Debye screening of a surface charge and a bulk-ion-controlled anchoring transition in a nematic liquid crystal. Physical Review E, 1999, 60, 5580-5583.	2.1	32
30	Surface variations of the density and scalar order parameter and the elastic constants of a uniaxial nematic phase. Physical Review E, 1999, 59, R2531-R2534.	2.1	15
31	K13 term and effective boundary condition for the nematic director. Physical Review E, 1998, 58, R16-R19.	2.1	17
32	Magnetic field controlled optical phase retardation in a hybrid nematic cell. Liquid Crystals, 1998, 24, 607-612.	2.2	3
33	K13-Induced Deformations in a Nematic Liquid Crystal: Experimental Test of the First-Order Theory. Molecular Crystals and Liquid Crystals, 1997, 292, 25-37.	0.3	3
34	Subsurface deformations in nematic liquid crystals: The hexagonal lattice approach. Physical Review E, 1997, 56, 571-580.	2.1	21
35	Magnetic Field Effects in a Nematic Cell with a High Tilt Angle ("First-Order Theory"). Molecular Crystals and Liquid Crystals, 1996, 288, 129-141.	0.3	3
36	Measurement of polar anchoring coefficient for nematic cell with high pretilt angle. Applied Physics Letters, 1995, 67, 214-216.	3.3	25

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37	Stripe Domain Phase of a Thin Nematic Film and the K_{13} Divergence Term. <i>Physical Review Letters</i> , 1994, 73, 979-982.	7.8	116
38	Nucleation of focal conic domains in smectic A liquid crystals. <i>Journal De Physique II</i> , 1994, 4, 377-404.	0.9	28
39	Distortions induced by the K_{13} surfacelike elastic term in a thin nematic liquid-crystal film. <i>Physical Review E</i> , 1993, 48, 1265-1271.	2.1	28
40	Phenomenological approach to the problem of the K_{13} surfacelike elastic term in the free energy of a nematic liquid crystal. <i>Physical Review E</i> , 1993, 48, 1254-1264.	2.1	71
41	Surfacelike-elasticity-induced spontaneous twist deformations and long-wavelength stripe domains in a hybrid nematic layer. <i>Physical Review E</i> , 1993, 47, 1881-1892.	2.1	54
42	Periodic Domain Structures in Thin Hybrid Nematic Layers. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1990, 179, 125-132.	0.3	11