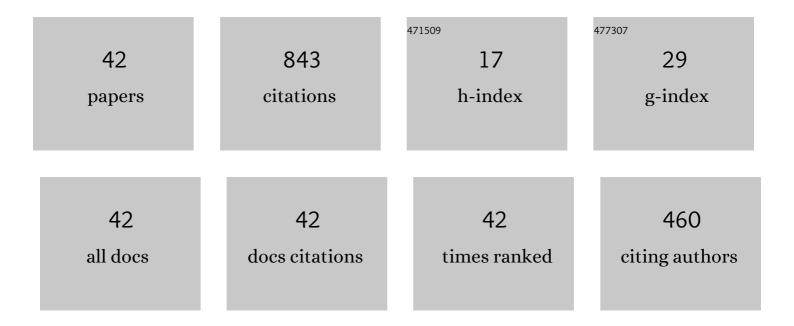
Victor Pergamenshchik

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Stripe Domain Phase of a Thin Nematic Film and theK13Divergence Term. Physical Review Letters, 1994, 73, 979-982.	7.8	116
2	Coexistence of Two Colloidal Crystals at the Nematic-Liquid-Crystal–Air Interface. Physical Review Letters, 2007, 98, 057801.	7.8	84
3	Phenomenological approach to the problem of theK13surfacelike elastic term in the free energy of a nematic liquid crystal. Physical Review E, 1993, 48, 1254-1264.	2.1	71
4	Dipolar colloids in nematostatics: Tensorial structure, symmetry, different types, and their interaction. Physical Review E, 2011, 83, 021701.	2.1	55
5	Surfacelike-elasticity-induced spontaneous twist deformations and long-wavelength stripe domains in a hybrid nematic layer. Physical Review E, 1993, 47, 1881-1892.	2.1	54
6	Coulomb-like interaction in nematic emulsions induced by external torques exerted on the colloids. Physical Review E, 2007, 76, 011707.	2.1	35
7	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
8	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
9	Colloid-wall interaction in a nematic liquid crystal: The mirror-image method of colloidal nematostatics. Physical Review E, 2009, 79, 021704.	2.1	29
10	Distortions induced by theK13surfacelike elastic term in a thin nematic liquid-crystal film. Physical Review E, 1993, 48, 1265-1271.	2.1	28
11	Elastic charge density representation of the interaction via the nematic director field. European Physical Journal E, 2007, 23, 161-174.	1.6	28
12	Nucleation of focal conic domains in smectic A liquid crystals. Journal De Physique II, 1994, 4, 377-404.	0.9	28
13	Measurement of polar anchoring coefficient for nematic cell with high pretilt angle. Applied Physics Letters, 1995, 67, 214-216.	3.3	25
14	Subsurface deformations in nematic liquid crystals: The hexagonal lattice approach. Physical Review E, 1997, 56, 571-580.	2.1	21
15	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
16	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
17	K13term and effective boundary condition for the nematic director. Physical Review E, 1998, 58, R16-R19.	2.1	17
18	Strong collective attraction in colloidal clusters on a liquid-air interface. Physical Review E, 2009, 79, 011407.	2.1	17

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#	Article	IF	CITATIONS
19	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
20	Stripe domains in a nearly homeotropic nematic liquid crystal: A bend escaped state at a nematic–smectic- <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mi mathvariant="italic">A</mml:mi></mml:math> transition. Physical Review E, 2008, 77, 041703.	2.1	14
21	Elastic multipoles in the field of the nematic director distortions. European Physical Journal E, 2014, 37, 121.	1.6	12
22	Periodic Domain Structures in Thin Hybrid Nematic Layers. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 179, 125-132.	0.3	11
23	Stability and minimum size of colloidal clusters on a liquid-air interface. Physical Review E, 2012, 85, 021403.	2.1	10
24	Kosterlitz-Thouless-type caging-uncaging transition in a quasi-one-dimensional hard disk system. Physical Review Research, 2020, 2, .	3.6	9
25	Selective light-induced desorption: The mechanism of photoalignment of liquid crystals at adsorbing solid surfaces. Europhysics Letters, 2006, 75, 448-454.	2.0	8
26	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
27	Analytical canonical partition function of a quasi-one-dimensional system of hard disks. Journal of Chemical Physics, 2020, 153, 144111.	3.0	8
28	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
29	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
30	Magnetic Field Effects in a Nematic Cell with a High Tilt Angle ("First-Order Theoryâ€) . Molecular Crystals and Liquid Crystals, 1996, 288, 129-141.	0.3	3
31	K 13-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
32	Magnetic field controlled optical phase retardation in a hybrid nematic cell. Liquid Crystals, 1998, 24, 607-612.	2.2	3
33	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
34	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
35	Aggregation of Anthraquinone Dye Molecules in a Nematic Liquid Crystal. Molecular Crystals and Liquid Crystals, 2014, 589, 96-104.	0.9	3
36	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

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37	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
38	Statistical model of a flexible inextensible polymer chain: The effect of kinetic energy. Physical Review E, 2017, 95, 012501.	2.1	2
39	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
40	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
41	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
42	Reply to "Comment on â€~Kosterlitz-Thouless-type caging-uncaging transition in a quasi-one-dimensional hard disk system' ― Physical Review Research, 2021, 3, .	3.6	0