

Olga I Vinogradova

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.

121
papers

5,156
citations

42
h-index

68
g-index

124
ext. papers

5,491
ext. citations

4
avg, IF

5.98
L-index

#	Paper	IF	Citations
121	Self-diffusiophoresis of Janus particles that release ions. <i>Physics of Fluids</i> , 2022 , 34, 032011	4.4	1
120	Accurate Solutions to Non-Linear PDEs Underlying a Propulsion of Catalytic Microswimmers. <i>Mathematics</i> , 2022 , 10, 1503	2.3	0
119	Surface and zeta potentials of charged permeable nanocoatings. <i>Journal of Chemical Physics</i> , 2021 , 154, 164701	3.9	3
118	Light-induced manipulation of passive and active microparticles. <i>European Physical Journal E</i> , 2021 , 44, 50	1.5	3
117	Instability of particle inertial migration in shear flow. <i>Physics of Fluids</i> , 2021 , 33, 092008	4.4	1
116	Enhanced transport of ions by tuning surface properties of the nanochannel. <i>Physical Review E</i> , 2021 , 104, 035107	2.4	0
115	Achieving large zeta-potentials with charged porous surfaces. <i>Physics of Fluids</i> , 2020 , 32, 102105	4.4	7
114	Extremely Long-Range Light-Driven Repulsion of Porous Microparticles. <i>Langmuir</i> , 2020 , 36, 6994-7004	4	12
113	Inertial migration of neutrally buoyant particles in superhydrophobic channels. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	5
112	Electro-osmotic properties of porous permeable films. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	3
111	Ionic equilibria and swelling of soft permeable particles in electrolyte solutions. <i>Soft Matter</i> , 2020 , 16, 929-938	3.6	5
110	Inertial migration of oblate spheroids in a plane channel. <i>Physics of Fluids</i> , 2020 , 32, 112017	4.4	7
109	Flow-driven collapse of lubricant-infused surfaces. <i>Journal of Fluid Mechanics</i> , 2020 , 901,	3.7	5
108	Electro-osmotic flow in hydrophobic nanochannels. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 23036-23043	2.1	21
107	Inertial focusing of finite-size particles in microchannels. <i>Journal of Fluid Mechanics</i> , 2018 , 840, 613-630	3.7	40
106	Star polymers as unit cells for coarse-graining cross-linked networks. <i>Physical Review E</i> , 2018 , 97, 032504	2.4	4
105	Boundary conditions at the gas sectors of superhydrophobic grooves. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	7

104	Enhanced slip properties of lubricant-infused grooves. <i>Physical Review E</i> , 2018 , 98,	2.4	20
103	Continuous electroosmotic sorting of particles in grooved microchannels. <i>Soft Matter</i> , 2017 , 13, 7498-7506	3.6	6
102	Advective superdiffusion in superhydrophobic microchannels. <i>Physical Review E</i> , 2017 , 96, 033109	2.4	8
101	Probing effective slippage on superhydrophobic stripes by atomic force microscopy. <i>Soft Matter</i> , 2016 , 12, 6910-7	3.6	12
100	Manipulation of small particles at solid liquid interface: light driven diffusioosmosis. <i>Scientific Reports</i> , 2016 , 6, 36443	4.9	54
99	Electrostatic interactions and electro-osmotic properties of semipermeable surfaces. <i>Journal of Chemical Physics</i> , 2016 , 145, 164703	3.9	10
98	Electrophoresis of Janus particles: A molecular dynamics simulation study. <i>Journal of Chemical Physics</i> , 2016 , 145, 244704	3.9	10
97	Principles of transverse flow fractionation of microparticles in superhydrophobic channels. <i>Lab on A Chip</i> , 2015 , 15, 2835-41	7.2	18
96	Electrohydrodynamics near hydrophobic surfaces. <i>Physical Review Letters</i> , 2015 , 114, 118301	7.4	66
95	Regimes of wetting transitions on superhydrophobic textures conditioned by energy of receding contact lines. <i>Applied Physics Letters</i> , 2015 , 106, 241601	3.4	20
94	Flows and mixing in channels with misaligned superhydrophobic walls. <i>Physical Review E</i> , 2015 , 91, 033020	7.4	20
93	Application of Tunable-Slip Boundary Conditions in Particle-Based Simulations 2015 , 19-30		2
92	Gas cushion model and hydrodynamic boundary conditions for superhydrophobic textures. <i>Physical Review E</i> , 2014 , 90, 043017	2.4	37
91	Disjoining pressure of an electrolyte film confined between semipermeable membranes. <i>Journal of Chemical Physics</i> , 2014 , 141, 074902	3.9	8
90	Lattice-Boltzmann simulations of the drag force on a sphere approaching a superhydrophobic striped plane. <i>Journal of Chemical Physics</i> , 2014 , 140, 034707	3.9	11
89	Contact angle hysteresis on superhydrophobic stripes. <i>Journal of Chemical Physics</i> , 2014 , 141, 074710	3.9	33
88	Effective slippage on superhydrophobic trapezoidal grooves. <i>Journal of Chemical Physics</i> , 2013 , 139, 174708	3.9	12
87	Flow in channels with superhydrophobic trapezoidal textures. <i>Soft Matter</i> , 2013 , 9, 11671	3.6	16

86	Effective slip-length tensor for a flow over weakly slipping stripes. <i>Physical Review E</i> , 2013 , 88, 023004	2.4	24
85	Electrostatic interaction of heterogeneously charged surfaces with semipermeable membranes. <i>Faraday Discussions</i> , 2013 , 166, 317-29	3.6	14
84	Effective hydrodynamic boundary conditions for microtextured surfaces. <i>Physical Review E</i> , 2013 , 87, 011002	2.4	21
83	Flow past superhydrophobic surfaces with cosine variation in local slip length. <i>Physical Review E</i> , 2013 , 87, 023005	2.4	23
82	Interactions of neutral semipermeable shells in asymmetric electrolyte solutions. <i>Soft Matter</i> , 2012 , 8, 9428	3.6	9
81	Superhydrophobic Textures for Microfluidics. <i>Mendeleev Communications</i> , 2012 , 22, 229-236	1.9	98
80	Tensorial slip of superhydrophobic channels. <i>Physical Review E</i> , 2012 , 85, 016324	2.4	44
79	Anisotropic flow in striped superhydrophobic channels. <i>Journal of Chemical Physics</i> , 2012 , 136, 194706	3.9	32
78	Electrostatic interaction of neutral semi-permeable membranes. <i>Journal of Chemical Physics</i> , 2012 , 136, 034902	3.9	10
77	Effective slip boundary conditions for arbitrary one-dimensional surfaces. <i>Journal of Fluid Mechanics</i> , 2012 , 706, 108-117	3.7	39
76	Thermal softening of superswollen polyelectrolyte microcapsules. <i>Soft Matter</i> , 2011 , 7, 2705	3.6	7
75	Wetting, roughness and flow boundary conditions. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 184104.8	4.8	105
74	Drag force on a sphere moving toward an anisotropic superhydrophobic plane. <i>Physical Review E</i> , 2011 , 84, 026330	2.4	29
73	Electro-osmosis on anisotropic superhydrophobic surfaces. <i>Physical Review Letters</i> , 2011 , 107, 098301	7.4	70
72	Anisotropic electro-osmotic flow over super-hydrophobic surfaces. <i>Journal of Fluid Mechanics</i> , 2010 , 644, 245-255	3.7	88
71	Random-roughness hydrodynamic boundary conditions. <i>Physical Review Letters</i> , 2010 , 105, 016001	7.4	51
70	Transverse flow in thin superhydrophobic channels. <i>Physical Review E</i> , 2010 , 82, 055301	2.4	34
69	Effective slip in pressure-driven flow past super-hydrophobic stripes. <i>Journal of Fluid Mechanics</i> , 2010 , 652, 489-499	3.7	119

68	Hydrodynamic interaction with super-hydrophobic surfaces. <i>Soft Matter</i> , 2010 , 6, 4563	3.6	26
67	THF-induced stiffening of polyelectrolyte/phosphorus dendrimer multilayer microcapsules. <i>Polymer</i> , 2010 , 51, 4525-4529	3.9	13
66	Direct measurements of hydrophobic slippage using double-focus fluorescence cross-correlation. <i>Physical Review Letters</i> , 2009 , 102, 118302	7.4	97
65	Effective slip over superhydrophobic surfaces in thin channels. <i>Physical Review Letters</i> , 2009 , 102, 026001	7.4	121
64	Methods for analysis of the AFM images of thin films of block copolymers. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2009 , 45, 105-108	0.9	3
63	Osmotic pressure acting on a semipermeable shell immersed in a solution of polyions. <i>Journal of Chemical Physics</i> , 2008 , 129, 244707	3.9	13
62	Ripples in a wetting film formed by a moving meniscus. <i>Physical Review E</i> , 2008 , 78, 031602	2.4	6
61	Tensorial hydrodynamic slip. <i>Journal of Fluid Mechanics</i> , 2008 , 613, 125-134	3.7	140
60	Studying intermolecular processes in thin surface layers with microcantilever transducers. Formation of protein fibrils on a solid support. <i>Protection of Metals</i> , 2008 , 44, 535-541		5
59	Dendrimer-encapsulated gold nanoparticles as building blocks for multilayer microshells. <i>Polymer</i> , 2007 , 48, 5024-5029	3.9	19
58	The wimple: A rippled deformation of a wetting film during its drainage. <i>Physics of Fluids</i> , 2007 , 19, 061702	7.4	9
57	Electro-osmotic equilibria for a semipermeable shell filled with a solution of polyions. <i>Journal of Chemical Physics</i> , 2007 , 126, 094901	3.9	14
56	Charged Semi-Permeable Shell with Encapsulated Polyions: Concentration Profile, Surface Potential, and Electrostatic Pressure. <i>Macromolecular Symposia</i> , 2007 , 252, 149-154	0.8	1
55	Dynamics and stability of dispersions of polyelectrolyte-filled multilayer microcapsules. <i>Journal of Chemical Physics</i> , 2007 , 126, 244901	3.9	11
54	MECHANICAL BEHAVIOR AND CHARACTERIZATION OF MICROCAPSULES. <i>Annual Review of Materials Research</i> , 2006 , 36, 143-178	12.8	70
53	Stability of toroid and rodlike globular structures of a single stiff-chain macromolecule for different bending potentials. <i>Physical Review E</i> , 2006 , 73, 051804	2.4	10
52	Surface roughness and hydrodynamic boundary conditions. <i>Physical Review E</i> , 2006 , 73, 045302	2.4	102
51	Effect of Dendrimer Generation on the Assembly and Mechanical Properties of DNA/Phosphorus Dendrimer Multilayer Microcapsules. <i>Macromolecules</i> , 2006 , 39, 5479-5483	5.5	29

50	Electrostatic stretching of a charged vesicle. <i>Langmuir</i> , 2006 , 22, 9418-26	4	4
49	Self-assembled monolayers on mercury probed in a modified surface force apparatus. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25931-40	3-4	4
48	Spatial distribution of polyelectrolyte and counterions in nanocapsules: a computer simulation study. <i>Physical Review E</i> , 2006 , 73, 021801	2-4	19
47	Superswollen Ultrasoft Polyelectrolyte Microcapsules. <i>Macromolecules</i> , 2005 , 38, 8066-8070	5-5	22
46	Assembly and mechanical properties of phosphorus dendrimer/polyelectrolyte multilayer microcapsules. <i>Langmuir</i> , 2005 , 21, 7200-6	4	52
45	Effect of Organic Solvent on the Permeability and Stiffness of Polyelectrolyte Multilayer Microcapsules. <i>Macromolecules</i> , 2005 , 38, 5214-5222	5-5	55
44	A qualitative theory of wimples in wetting films. <i>Langmuir</i> , 2005 , 21, 12090-2	4	7
43	The "Wimple": rippled deformation of a fluid drop caused by hydrodynamic and surface forces during thin film drainage. <i>Langmuir</i> , 2005 , 21, 8243-9	4	38
42	Multilayer DNA/poly(allylamine hydrochloride) microcapsules: assembly and mechanical properties. <i>Biomacromolecules</i> , 2005 , 6, 1495-502	6-9	72
41	Interaction and adhesion properties of polyelectrolyte multilayers. <i>Langmuir</i> , 2005 , 21, 7545-50	4	51
40	Salt softening of polyelectrolyte multilayer microcapsules. <i>Journal of Colloid and Interface Science</i> , 2005 , 284, 455-62	9-3	52
39	Hydrodynamic resistance of close-approached slip surfaces with a nanoasperity or an entrapped nanobubble. <i>Physical Review E</i> , 2005 , 72, 066306	2-4	17
38	Capillary bridging and long-range attractive forces in a mean-field approach. <i>Journal of Chemical Physics</i> , 2004 , 121, 4414-23	3-9	54
37	Elasticity of polyelectrolyte multilayer microcapsules. <i>Journal of Chemical Physics</i> , 2004 , 120, 3822-6	3-9	112
36	Mechanical properties of polyelectrolyte multilayer microcapsules. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, R1105-R1134	1-8	76
35	Comparative Analysis of Hollow and Filled Polyelectrolyte Microcapsules Templated on Melamine Formaldehyde and Carbonate Cores. <i>Macromolecular Chemistry and Physics</i> , 2004 , 205, 530-535	2-6	48
34	Mechanical properties of polyelectrolyte-filled multilayer microcapsules studied by atomic force and confocal microscopy. <i>Langmuir</i> , 2004 , 20, 10685-90	4	34
33	Investigation of Molecular Weight and Aging Effects on the Stiffness of Polyelectrolyte Multilayer Microcapsules. <i>Macromolecules</i> , 2004 , 37, 7736-7741	5-5	33

32	Young's Modulus of Polyelectrolyte Multilayers from Microcapsule Swelling. <i>Macromolecules</i> , 2004 , 37, 1113-1117	5.5	92
31	Effect of pH and salt on the stiffness of polyelectrolyte multilayer microcapsules. <i>Langmuir</i> , 2004 , 20, 2874-8	4	76
30	pH-Controlled Swelling of Polyelectrolyte Multilayer Microcapsules. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8161-8165	3.4	54
29	Interaction of elastic bodies via surface forces. 2. Exponential decay. <i>Journal of Colloid and Interface Science</i> , 2003 , 268, 464-75	9.3	4
28	Mechanical Properties of Polyelectrolyte Microcapsules Filled with a Neutral Polymer. <i>Macromolecules</i> , 2003 , 36, 2832-2837	5.5	65
27	Dynamic Effects on Force Measurements. 2. Lubrication and the Atomic Force Microscope. <i>Langmuir</i> , 2003 , 19, 1227-1234	4	161
26	Deformation Properties of Nonadhesive Polyelectrolyte Microcapsules Studied with the Atomic Force Microscope. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 2735-2740	3.4	96
25	Boundary slip as a result of a prewetting transition. <i>Journal of Chemical Physics</i> , 2003 , 119, 13106-13112	3.9	58
24	Flow profile near a wall measured by double-focus fluorescence cross-correlation. <i>Physical Review E</i> , 2003 , 67, 056313	2.4	68
23	Interaction of Elastic Bodies via Surface Forces. 1. Power-Law Attraction. <i>Langmuir</i> , 2002 , 18, 5126-5132	4	7
22	A Study of the Linear Tension Effect on the Polystyrene Microsphere Wettability with Water. <i>Colloid Journal</i> , 2001 , 63, 518-525	1.1	13
21	Dynamic effects on force measurements. I. Viscous drag on the atomic force microscope cantilever. <i>Review of Scientific Instruments</i> , 2001 , 72, 2330-2339	1.7	83
20	Forces between polystyrene surfaces in water-electrolyte solutions: Long-range attraction of two types?. <i>Journal of Chemical Physics</i> , 2001 , 114, 8124-8131	3.9	65
19	Attractive Forces between Surfaces: What Can and Cannot Be Learned from a Jump-In Study with the Surface Forces Apparatus?. <i>Langmuir</i> , 2001 , 17, 1604-1607	4	17
18	Elastohydrodynamic Collision of Two Spheres Allowing Slip on Their Surfaces. <i>Journal of Colloid and Interface Science</i> , 2000 , 221, 1-12	9.3	19
17	Contact angles on hydrophobic microparticles at water-air and water-hexadecane interfaces. <i>Journal of Adhesion Science and Technology</i> , 2000 , 14, 1783-1799	2	52
16	Analysis of plastic deformation in atomic force microscopy: Application to ice. <i>Journal of Chemical Physics</i> , 2000 , 113, 1194-1203	3.9	35
15	Hydrodynamic slippage inferred from thin film drainage measurements in a solution of nonadsorbing polymer. <i>Journal of Chemical Physics</i> , 2000 , 112, 6424-6433	3.9	92

14	Interaction Forces between Hydrophobic Surfaces. Attractive Jump as an Indication of Formation of Stable Submicrocavities. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 3407-3410	3.4	108
13	Slippage of water over hydrophobic surfaces. <i>International Journal of Mineral Processing</i> , 1999 , 56, 31-60		330
12	Implications of Hydrophobic Slippage for the Dynamic Measurements of Hydrophobic Forces. <i>Langmuir</i> , 1998 , 14, 2827-2837	4	41
11	Effect of Salts and Dissolved Gas on Optical Cavitation near Hydrophobic and Hydrophilic Surfaces. <i>Langmuir</i> , 1997 , 13, 3024-3028	4	76
10	Hydrophobicity, specific ion adsorption and reactivity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1997 , 123-124, 7-12	5.1	46
9	Possible implications of hydrophobic slippage on the dynamic measurements of hydrophobic forces. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 9491-9495	1.8	7
8	Hydrodynamic Interaction of Curved Bodies Allowing Slip on Their Surfaces. <i>Langmuir</i> , 1996 , 12, 5963-5968		42
7	Existence of charged submicrobubble clusters in polar liquids as revealed by correlation between optical cavitation and electrical conductivity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996 , 110, 207-212	5.1	42
6	Flow of a liquid in a nonuniformly hydrophobized capillary. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996 , 108, 173-179	5.1	19
5	Drainage of a Thin Liquid Film Confined between Hydrophobic Surfaces. <i>Langmuir</i> , 1995 , 11, 2213-2220	4	469
4	Coagulation of Hydrophobic and Hydrophilic Solids under Dynamic Conditions. <i>Journal of Colloid and Interface Science</i> , 1995 , 169, 306-312	9.3	30
3	Submicrocavity Structure of Water between Hydrophobic and Hydrophilic Walls as Revealed by Optical Cavitation. <i>Journal of Colloid and Interface Science</i> , 1995 , 173, 443-447	9.3	109
2	Boris Vladimirovich Derjaguin (1902-1994). <i>Journal of Colloid and Interface Science</i> , 1994 , 168, 273	9.3	2
1	On the attachment of hydrophobic particles to a bubble on their collision. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1994 , 82, 247-254	5.1	11