

# Valentina V Vasilevskaya

## List of Publications by Year in descending order

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108  
papers

2,499  
citations

304743

22  
h-index

214800

47  
g-index

108  
all docs

108  
docs citations

108  
times ranked

1452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Discrete Transition in a Single DNA Molecule Appears Continuous in the Ensemble. <i>Physical Review Letters</i> , 1996, 76, 3029-3031.	7.8	297
2	Collapse of single DNA molecule in poly(ethylene glycol) solutions. <i>Journal of Chemical Physics</i> , 1995, 102, 6595-6602.	3.0	293
3	Discrete Coil-Globule Transition of Single Duplex DNAs Induced by Polyamines. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9396-9401.	2.6	192
4	Conformational transitions in polymer gels: Theory and experiment. <i>Advances in Polymer Science</i> , 1993, 123-171.	0.8	188
5	Conformational Polymorphism of Amphiphilic Polymers in a Poor Solvent. <i>Macromolecules</i> , 2003, 36, 10103-10111.	4.8	139
6	Structure of collapsed persistent macromolecule: Toroid vs. spherical globule. <i>Biopolymers</i> , 1997, 41, 51-60.	2.4	108
7	HA (Hydrophobic/Amphiphilic) Copolymer Model: Coil-Globule Transition versus Aggregation. <i>Macromolecules</i> , 2004, 37, 5444-5460.	4.8	73
8	Associating polyelectrolytes: Finite size cluster stabilization versus physical gel formation. <i>Journal of Chemical Physics</i> , 1999, 111, 2809-2817.	3.0	66
9	Structures of stiff macromolecules of finite chain length near the coil-globule transition: A Monte Carlo simulation. <i>Macromolecular Theory and Simulations</i> , 2000, 9, 488-499.	1.4	61
10	Marked discreteness on the coil-globule transition of single duplex DNA. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1996, 100, 876-880.	0.9	47
11	DNA Compaction in a Crowded Environment with Negatively Charged Proteins. <i>Physical Review Letters</i> , 2010, 105, 128302.	7.8	46
12	Swelling and collapse of polymer gel in polymer solutions and melts. <i>Macromolecules</i> , 1992, 25, 384-390.	4.8	45
13	Influence of Migrating Ionic Groups on the Solubility of Polyelectrolytes: Phase Behavior of Ionic Poly(N-isopropylacrylamide) Copolymers in Water. <i>Macromolecules</i> , 2000, 33, 9757-9763.	4.8	39
14	Swelling and Collapse of Physical Gels Formed by Associating Telechelic Polyelectrolytes. <i>Langmuir</i> , 1999, 15, 7918-7924.	3.5	33
15	Microphase Separation within a Comb Copolymer with Attractive Side Chains: A Computer Simulation Study. <i>Macromolecular Theory and Simulations</i> , 2001, 10, 389-394.	1.4	33
16	Polyelectrolyte Complexes Consisting of Macromolecules With Varied Stiffness: Computer Simulation. <i>Macromolecular Theory and Simulations</i> , 2012, 21, 328-339.	1.4	33
17	Semiflexible amphiphilic polymers: Cylindrical-shaped, collagenlike, and toroidal structures. <i>Journal of Chemical Physics</i> , 2006, 124, 144914.	3.0	30
18	Hollow and Vesicle Particles from Macromolecules with Amphiphilic Monomer Units. <i>Polymer Reviews</i> , 2019, 59, 625-650.	10.9	28

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19	Study of Interpolymer Complexes of Oppositely Charged Macromolecules with Different Affinity to Solvent. <i>Macromolecules</i> , 2007, 40, 5934-5940.	4.8	27
20	Self-Organization in Solutions of Stiff-Chain Amphiphilic Macromolecules. <i>Macromolecules</i> , 2008, 41, 7722-7728.	4.8	27
21	Computer simulation of macromolecular systems with amphiphilic monomer units: Biomimetic models. <i>Polymer Science - Series A</i> , 2011, 53, 846-866.	1.0	26
22	Conformation of a polymer chain near the solvent critical region. I. The integral equation theory. <i>Journal of Chemical Physics</i> , 1998, 109, 5108-5118.	3.0	25
23	Influence of cross-linking rate on the structure of hypercrosslinked networks: Multiscale computer simulation. <i>Polymer</i> , 2016, 86, 168-175.	3.8	21
24	Single polyelectrolyte macromolecule in the salt solution: Effect of escaped counter ions. <i>Macromolecular Theory and Simulations</i> , 2000, 9, 600-607.	1.4	19
25	Morphological diagram of amphiphilic H-graft-P macromolecules: Theory and computer experiment. <i>Polymer</i> , 2018, 146, 230-241.	3.8	19
26	Vesicle-Like Globules of Amphiphilic Macromolecules. <i>Macromolecular Theory and Simulations</i> , 2015, 24, 393-398.	1.4	18
27	New strategy to create ultra-thin surface layer of grafted amphiphilic macromolecules. <i>Journal of Chemical Physics</i> , 2015, 142, 184904.	3.0	18
28	Conformation of a polymer chain near the solvent critical region. II. Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 1998, 109, 5119-5125.	3.0	17
29	Salt Effects on Complexes of Oppositely Charged Macromolecules Having Different Affinity to Water. <i>Macromolecules</i> , 2009, 42, 7495-7503.	4.8	17
30	Control of reactions between surfactant reagents in miniemulsions. <i>Surface nanoreactors. Colloid and Polymer Science</i> , 2006, 284, 459-467.	2.1	16
31	Hypercrosslinked polystyrene networks: An atomistic molecular dynamics simulation combined with a mapping/reverse mapping procedure. <i>Journal of Chemical Physics</i> , 2014, 140, 134903.	3.0	16
32	Self-Assembly into Strands in Amphiphilic Polymer Brushes. <i>Langmuir</i> , 2016, 32, 7000-7008.	3.5	15
33	Self-assembly in Solutions of Amphiphilic Homopolymers: Computer Modeling and Analytical Theory. <i>Macromolecules</i> , 2020, 53, 4783-4795.	4.8	15
34	Swelling and Collapse of Swiss-Cheese Polyelectrolyte Gels in Salt Solutions. <i>Macromolecular Theory and Simulations</i> , 2002, 11, 623.	1.4	14
35	Conformational properties of rigid-chain amphiphilic macromolecules: The phase diagram. <i>Polymer Science - Series A</i> , 2008, 50, 621-629.	1.0	14
36	Self-organization of amphiphilic macromolecules with local helix structure in concentrated solutions. <i>Journal of Chemical Physics</i> , 2012, 137, 084901.	3.0	14

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37	Amphiphilic comb macromolecules with different distribution statistics of side-chain grafting sites: Mathematical modeling. <i>Polymer Science - Series A</i> , 2008, 50, 1008-1017.	1.0	13
38	Void Microstructuring in Lamellar Phase of Amphiphilic Macromolecules. <i>Macromolecular Theory and Simulations</i> , 2013, 22, 31-35.	1.4	13
39	Macroscopic Properties of Hypercrosslinked Polystyrene Networks: An Atomistic and Coarse-Grained Molecular Dynamics Simulation. <i>Macromolecular Symposia</i> , 2015, 348, 14-24.	0.7	13
40	Self-assembly in densely grafted macromolecules with amphiphilic monomer units: diagram of states. <i>Soft Matter</i> , 2017, 13, 8525-8533.	2.7	13
41	Secondary globular structure of copolymers containing amphiphilic and hydrophilic units: Computer simulation analysis. <i>Polymer Science - Series A</i> , 2007, 49, 89-96.	1.0	12
42	Compactization of rigid-chain amphiphilic macromolecules with local helical structure. <i>Polymer Science - Series A</i> , 2010, 52, 761-774.	1.0	12
43	The effect of low-molecular weight salts on the collapse of charged polymeric networks. <i>Polymer Science USSR</i> , 1986, 28, 348-353.	0.2	11
44	Diagram of State of Stiff Amphiphilic Macromolecules. <i>Macromolecular Symposia</i> , 2007, 252, 24-35.	0.7	11
45	Microphase separation in the melts of diblock copolymers composed of linear and amphiphilic blocks. <i>Polymer Science - Series A</i> , 2010, 52, 182-190.	1.0	11
46	Experimental and Theoretical Studies of Polyanion-Polycation Complexation in Salted Media in the Context of Nonviral Gene Transfection. <i>Macromolecules</i> , 2014, 47, 3574-3581.	4.8	11
47	Multichain adsorption at fluid interfaces: Amphiphilic homopolymers vs copolymers. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 408-419.	9.4	10
48	Neutral glycolipids of atherosclerotic plaques and unaffected human aorta tissue. <i>FEBS Journal</i> , 1989, 180, 167-171.	0.2	9
49	Domains in Melts of Comb-Coil Diblock Copolymers: Superstrong Segregation Regime. <i>Macromolecules</i> , 2001, 34, 5019-5022.	4.8	9
50	Catalytic Reactions of a Surface-Active Catalyst and a Surface-Active Substrate in Emulsions: The Optimal Drop Size. <i>Doklady Physical Chemistry</i> , 2004, 398, 258-261.	0.9	9
51	Self-assembly of an amphiphilic macromolecule under spherical confinement: An efficient route to generate hollow nanospheres. <i>Journal of Chemical Physics</i> , 2013, 139, 244901.	3.0	9
52	Salt effects on macrophase separations in non-stoichiometric mixtures of oppositely charged macromolecules: Theory and experiment. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1717-1730.	2.1	9
53	Macromolecules with amphiphilic monomer units at interface of two immiscible liquids. <i>Journal of Chemical Physics</i> , 2017, 147, 184902.	3.0	9
54	Coarse-grained graft model of poly(lactic acid) for molecular dynamics simulations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 604-612.	2.1	9

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55	Orientation- and cosolvent-induced self-assembly of amphiphilic homopolymers in selective solvents. <i>Polymer</i> , 2021, 232, 124160.	3.8	9
56	Computer simulation analysis of microstructure formation in monomer and polymer blends involving a glassy component. <i>Macromolecular Theory and Simulations</i> , 1994, 3, 939-961.	1.4	8
57	“Swiss-cheese” polyelectrolyte gels as media with extremely inhomogeneous distribution of charged species. <i>Journal of Chemical Physics</i> , 2004, 120, 9321-9329.	3.0	8
58	Reactions in surface microreactors: Computer simulation. <i>Colloid Journal</i> , 2007, 69, 265-271.	1.3	8
59	Effect of Induced Self-Organization in Mixtures of Amphiphilic Macromolecules with Different Stiffness. <i>Macromolecules</i> , 2015, 48, 3767-3774.	4.8	8
60	Induced liquid-crystalline ordering in solutions of stiff and flexible amphiphilic macromolecules: Effect of mixture composition. <i>Journal of Chemical Physics</i> , 2016, 145, 044904.	3.0	8
61	Formation of a vesicle-like globule under steric restrictions. <i>Polymer Science - Series A</i> , 2016, 58, 292-301.	1.0	8
62	Flowerlike Multipetal Structures of Nanoparticles Decorated by Amphiphilic Homopolymers. <i>Macromolecules</i> , 2021, 54, 6285-6295.	4.8	8
63	Segmentation of Heteropolymer Sequences Specifying Subsequences with Different Composition and Statistical Properties. <i>Macromolecular Theory and Simulations</i> , 2003, 12, 604-613.	1.4	7
64	The effect of a low-molecular-mass salt on stoichiometric polyelectrolyte complexes composed of oppositely charged macromolecules with different solvent affinities. <i>Polymer Science - Series A</i> , 2009, 51, 1075-1082.	1.0	7
65	Formation of fibrillar aggregates in concentrated solutions of rigid-chain amphiphilic macromolecules with fixed torsion and bend angles. <i>Polymer Science - Series A</i> , 2011, 53, 733-743.	1.0	7
66	Marked difference in conformational fluctuation between giant DNA molecules in circular and linear forms. <i>Journal of Chemical Physics</i> , 2015, 142, 145101.	3.0	7
67	Structures of stiff macromolecules of finite chain length near the coil-globule transition: A Monte Carlo simulation. <i>Macromolecular Theory and Simulations</i> , 2000, 9, 488-499.	1.4	7
68	Coarse-grained simulation of molecular ordering in polylactic blends under uniaxial strain. <i>Polymer</i> , 2020, 190, 122232.	3.8	7
69	Collapse of polymeric networks in a mixed solvent. <i>Polymer Science USSR</i> , 1989, 31, 784-791.	0.2	6
70	Secondary structure of globules of copolymers consisting of amphiphilic and hydrophilic units: Effect of potential range. <i>Polymer Science - Series A</i> , 2010, 52, 317-327.	1.0	6
71	Lamellae “Parking Garage Structure” Lamellae Transition in Densely Grafted Layers of Amphiphilic Homopolymers: Impact of Polymerization Degree. <i>ACS Omega</i> , 2018, 3, 12967-12974.	3.5	6
72	Lamellae and parking garage structures in amphiphilic homopolymer brushes with different grafting densities. <i>Journal of Chemical Physics</i> , 2019, 151, 154903.	3.0	6

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73	Catalytic reactions in emulsions in the presence of a polymeric catalyst. <i>Polymer Science - Series A</i> , 2007, 49, 729-736.	1.0	5
74	Destruction of globules of Co- and homopolymer macromolecules in the presence of an amphiphilic substrate. <i>Polymer Science - Series A</i> , 2009, 51, 424-429.	1.0	5
75	Polymer globule with fractal properties caused by intramolecular nanostructuring and spatial constrains. <i>Soft Matter</i> , 2016, 12, 5138-5145.	2.7	5
76	Domains in mixtures of amphiphilic macromolecules with different stiffness of backbone. <i>Polymer</i> , 2017, 125, 234-240.	3.8	5
77	Self-assembly in amphiphilic spherical brushes. <i>Journal of Chemical Physics</i> , 2020, 152, 234903.	3.0	5
78	Unusual Structures of Interpolyelectrolyte Complexes: Vesicles and Perforated Vesicles. <i>Polymers</i> , 2020, 12, 871.	4.5	5
79	Fibrillar gel self-assembly via cononsolvency of amphiphilic polymer. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 181-193.	9.4	5
80	Kinetics of polyelectrolyte network swelling and collapse. <i>Polymer Gels and Networks</i> , 1998, 6, 149-161.	0.6	4
81	Adsorption of amphiphilic comb-shaped macromolecules on a patterned surface. <i>Polymer Science - Series A</i> , 2011, 53, 344-353.	1.0	4
82	Self-assembly of polymer layers with mobile grafting points: Computer simulation. <i>Polymer Science - Series A</i> , 2012, 54, 767-777.	1.0	4
83	Atomistic simulation of poly (lactic acid) of different regioregularity. <i>Polymer</i> , 2021, 221, 123577.	3.8	4
84	Matrix free polymer nanocomposites from amphiphilic hairy nanoparticles: Solvent selectivity and mechanical properties. <i>Polymer</i> , 2022, 255, 125172.	3.8	4
85	Protein Sequences as Literature Text. <i>Macromolecular Theory and Simulations</i> , 2006, 15, 425-431.	1.4	3
86	The formation of interpolymer complexes in mixtures of weak polyelectrolytes. <i>Polymer Science - Series A</i> , 2016, 58, 606-612.	1.0	3
87	Computer synthesis of hypercrosslinked polystyrene: All-atom simulations. <i>Low Temperature Physics</i> , 2017, 43, 244-247.	0.6	3
88	Parking Garage Bicontinuous Structures of Densely Grafted Layers of Amphiphilic Homopolymers. <i>Polymer Science - Series C</i> , 2018, 60, 56-65.	1.7	3
89	Effect of Nanoparticles Surface Bonding and Aspect Ratio on Mechanical Properties of Highly Cross-Linked Epoxy Nanocomposites: Mesoscopic Simulations. <i>Materials</i> , 2021, 14, 6637.	2.9	3
90	Compaction of DNA in solutions of highly charged proteins carrying the same charge as DNA. <i>Polymer Science - Series C</i> , 2012, 54, 21-29.	1.7	2

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91	Liquid-Crystalline Ordering of Filaments Formed by Bidisperse Amphiphilic Macromolecules. Polymer Science - Series C, 2018, 60, 39-47.	1.7	2
92	Fibril Assembly and Gelation of Macromolecules with Amphiphilic Repeating Units. Langmuir, 2021, 37, 12377-12387.	3.5	2
93	Reverse Mapping Algorithm for Multi-scale Numerical Simulation of Polylactic Acid. Supercomputing Frontiers and Innovations, 2018, 5, .	0.4	2
94	Swelling and collapse of polymer networks in contact with polymer melts and solutions. Polymer Science USSR, 1991, 33, 805-811.	0.2	1
95	Association of diphilic chains near the solvent critical region. Journal of Chemical Physics, 1999, 111, 2340-2344.	3.0	1
96	Protein Sequences as a "Literary" Text. Doklady Biochemistry and Biophysics, 2004, 397, 235-238.	0.9	1
97	Helix-coil transition in DNA in the presence of a denaturing agent. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2007, 62, 99-103.	0.4	1
98	Effect of correlations in the interaction along polymer chain on the globule structure. Doklady Physical Chemistry, 2017, 472, 6-9.	0.9	1
99	On Conditions of Formation of Hollow Particles by an Interpolyelectrolyte Complex. Polymer Science - Series A, 2019, 61, 780-788.	1.0	1
100	Microphase separation in helix-coil block copolymer melts: computer simulation. Soft Matter, 2021, 17, 8331-8342.	2.7	1
101	Self-Assembly of Gel-Like Particles and Vesicles in Solutions of Polymers with Amphiphilic Repeat Unit. Polymer Science - Series A, 2022, 64, 220-231.	1.0	1
102	Theory of the collapse of polyelectrolyte networks in solutions of ionogenic surfactants. Polymer Science USSR, 1991, 33, 974-982.	0.2	0
103	Analysis of correlations in location of hydrophobic and hydrophilic monomers in protein sequences. Doklady Biochemistry and Biophysics, 2006, 411, 361-364.	0.9	0
104	Hybrids of Synthetic Polymers and Biopolymers. , 2015, , 953-958.		0
105	Conformational Transitions in Cross-Linked Ionic Gels. , 2007, , 81-114.		0
106	Hybrids of Synthetic Polymers and Biopolymers. , 2014, , 1-6.		0
107	Monte Carlo simulation of association of diphilic chains near the solvent critical region. , 1999, , .		0
108	Structured globules with twisted arrangement of helical blocks: Computer simulation. Polymer, 2022, , 124974.	3.8	0