

Ekaterina B Zhulina

List of Publications by Year in descending order

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182
papers

10,374
citations

28736

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183
docs citations

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times ranked

7550
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise hierarchical self-assembly of multicompartment micelles. <i>Nature Communications</i> , 2012, 3, 710.	5.8	504
2	Coil-globule type transitions in polymers. 1. Collapse of layers of grafted polymer chains. <i>Macromolecules</i> , 1991, 24, 140-149.	2.2	380
3	Theory of steric stabilization of colloid dispersions by grafted polymers. <i>Journal of Colloid and Interface Science</i> , 1990, 137, 495-511.	5.0	329
4	Modeling the Interactions between Polymers and Clay Surfaces through Self-Consistent Field Theory. <i>Macromolecules</i> , 1998, 31, 8370-8381.	2.2	329
5	Theory of Ionizable Polymer Brushes. <i>Macromolecules</i> , 1995, 28, 1491-1499.	2.2	312
6	Diblock Copolymer Micelles in a Dilute Solution. <i>Macromolecules</i> , 2005, 38, 5330-5351.	2.2	282
7	Polymer brushes at curved surfaces. <i>Macromolecules</i> , 1993, 26, 7214-7224.	2.2	257
8	Surface patterning of nanoparticles with polymer patches. <i>Nature</i> , 2016, 538, 79-83.	13.7	257
9	Charged Polymeric Brushes: Structure and Scaling Relations. <i>Macromolecules</i> , 1994, 27, 3249-3261.	2.2	240
10	Conformations of star-branched macromolecules. <i>Polymer</i> , 1984, 25, 1453-1461.	1.8	228
11	Diagram of the States of a Grafted Polyelectrolyte Layer. <i>Macromolecules</i> , 1994, 27, 4795-4803.	2.2	222
12	Theory of Block Polymer Micelles: Recent Advances and Current Challenges. <i>Macromolecules</i> , 2012, 45, 4429-4440.	2.2	206
13	Structure and interaction of weakly charged polyelectrolyte brushes: Self-consistent field theory. <i>Journal of Chemical Physics</i> , 1997, 107, 5952-5967.	1.2	205
14	Analytical Self-Consistent-Field Model of Weak Polyacid Brushes. <i>Macromolecules</i> , 1995, 28, 3562-3569.	2.2	190
15	Modeling the Phase Behavior of Polymer/Clay Nanocomposites. <i>Accounts of Chemical Research</i> , 1999, 32, 651-657.	7.6	170
16	Self-consistent field theories for polymer brushes: lattice calculations and an asymptotic analytical description. <i>Macromolecules</i> , 1992, 25, 2657-2665.	2.2	164
17	On the Deformation Behaviour of Collapsed Polymers. <i>Europhysics Letters</i> , 1991, 15, 417-421.	0.7	156
18	Screening Effects in a Polyelectrolyte Brush: Self-Consistent-Field Theory. <i>Macromolecules</i> , 2000, 33, 4945-4953.	2.2	144

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19	Effect of Free Polymer on the Structure of a Polymer Brush and Interaction between Two Polymer Brushes. <i>Macromolecules</i> , 1994, 27, 3238-3248.	2.2	130
20	Sensitivity, Specificity, and the Hybridization Isotherms of DNA Chips. <i>Biophysical Journal</i> , 2004, 86, 718-730.	0.2	127
21	Forming Patterned Films with Tethered Diblock Copolymers. <i>Macromolecules</i> , 1996, 29, 6338-6348.	2.2	123
22	Amphiphilic Graft Copolymer in a Selective Solvent: Intramolecular Structures and Conformational Transitions. <i>Macromolecules</i> , 2005, 38, 2506-2514.	2.2	119
23	Scaling theory of supermolecular structures in block copolymer-solvent systems: 1. Model of micellar structures. <i>Polymer</i> , 1989, 30, 170-177.	1.8	116
24	Designing Patterned Surfaces by Grafting Y-Shaped Copolymers. <i>Macromolecules</i> , 1996, 29, 2667-2673.	2.2	115
25	Theory of supermolecular structures of polydisperse block copolymers: 1. Planar layers of grafted chains. <i>Polymer</i> , 1990, 31, 2185-2196.	1.8	104
26	Inhomogeneous Structure of Collapsed Polymer Brushes Under Deformation. <i>Macromolecules</i> , 1995, 28, 8612-8620.	2.2	97
27	Effect of Salt on Self-Assembly in Charged Block Copolymer Micelles. <i>Macromolecules</i> , 2002, 35, 4472-4480.	2.2	97
28	Tension Amplification in Molecular Brushes in Solutions and on Substrates. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3750-3768.	1.2	96
29	Stimuli-Responsive Materials with Self-Healing Antifouling Surface via 3D Polymer Grafting. <i>Advanced Functional Materials</i> , 2013, 23, 4593-4600.	7.8	96
30	Poisson-Boltzmann Theory of pH-Sensitive (Annealing) Polyelectrolyte Brush. <i>Langmuir</i> , 2011, 27, 10615-10633.	1.6	95
31	Screening in Solutions of Star-Branched Polyelectrolytes. <i>Macromolecules</i> , 1999, 32, 2365-2377.	2.2	93
32	Self-Assembly of Tethered Diblocks in Selective Solvents. <i>Macromolecules</i> , 1996, 29, 8254-8259.	2.2	90
33	Morphology of Micelles Formed by Diblock Copolymer with a Polyelectrolyte Block. <i>Macromolecules</i> , 2003, 36, 10029-10036.	2.2	89
34	Brush Effects on DNA Chips: Thermodynamics, Kinetics, and Design Guidelines. <i>Biophysical Journal</i> , 2005, 89, 796-811.	0.2	89
35	Scaling Theory of Planar Brushes Formed by Branched Polymers. <i>Macromolecules</i> , 1995, 28, 1008-1015.	2.2	86
36	Elastin-like Polypeptide Diblock Copolymers Self-Assemble into Weak Micelles. <i>Macromolecules</i> , 2015, 48, 4183-4195.	2.2	86

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37	On the hybridization isotherms of DNA microarrays: the Langmuir model and its extensions. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S463-S490.	0.7	85
38	Self-consistent field theory of brushes of neutral water-soluble polymers. <i>Journal of Chemical Physics</i> , 2003, 119, 10977-10988.	1.2	83
39	Scaling Theory of Diblock Polyampholyte Solutions. <i>Macromolecules</i> , 2005, 38, 8870-8881.	2.2	83
40	Stretching polymer brushes in poor solvents. <i>Macromolecules</i> , 1991, 24, 5393-5397.	2.2	80
41	Lubrication by Polyelectrolyte Brushes. <i>Macromolecules</i> , 2014, 47, 5825-5838.	2.2	79
42	Lamellar mesogels and mesophases: a self-consistent-field theory. <i>Macromolecules</i> , 1992, 25, 5730-5741.	2.2	78
43	Temperature-concentration diagram for a solution of star-branched macromolecules. <i>Polymer</i> , 1986, 27, 1078-1086.	1.8	77
44	Polyelectrolytes Grafted to Curved Surfaces. <i>Macromolecules</i> , 1996, 29, 2618-2626.	2.2	75
45	Theory of a planar grafted chain layer immersed in a solution of mobile polymer. <i>Macromolecules</i> , 1991, 24, 4679-4690.	2.2	72
46	Theory of the Collapse of the Polyelectrolyte Brush. <i>Macromolecules</i> , 1996, 29, 8260-8270.	2.2	71
47	Colloid-Brush Interactions: The Effect of Solvent Quality. <i>Macromolecules</i> , 2011, 44, 3622-3638.	2.2	69
48	Self-Assembly in Solution of Block Copolymers with Annealing Polyelectrolyte Blocks. <i>Macromolecules</i> , 2002, 35, 9191-9203.	2.2	68
49	Annealed Star-Branched Polyelectrolytes in Solution. <i>Macromolecules</i> , 2002, 35, 9176-9190.	2.2	67
50	Amphiphilic Graft Copolymers in Selective Solvents: Molecular Dynamics Simulations and Scaling Theory. <i>Macromolecules</i> , 2009, 42, 6748-6760.	2.2	67
51	On the Two-Population Structure of Brushes Made of Arm-Grafted Polymer Stars. <i>Macromolecules</i> , 2012, 45, 7260-7273.	2.2	65
52	Polyelectrolyte Brush Interaction with Multivalent Ions. <i>Macromolecules</i> , 1999, 32, 8189-8196.	2.2	64
53	Attraction between Surfaces in a Polymer Melt Containing Telechelic Chains: Guidelines for Controlling the Surface Separation in Intercalated Polymer-Clay Composites. <i>Langmuir</i> , 1999, 15, 3935-3943.	1.6	63
54	Shape-Specific Patterning of Polymer-Functionalized Nanoparticles. <i>ACS Nano</i> , 2017, 11, 4995-5002.	7.3	63

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55	Ionic strength dependence of polyelectrolyte brush thickness. <i>Soft Matter</i> , 2012, 8, 9376.	1.2	62
56	Universality of the Entanglement Plateau Modulus of Comb and Bottlebrush Polymer Melts. <i>Macromolecules</i> , 2018, 51, 10028-10039.	2.2	61
57	Structure of a bidisperse polymer brush: Monte Carlo simulation and self-consistent field results. <i>Macromolecules</i> , 1992, 25, 5201-5207.	2.2	60
58	Theory of polymer chains tethered at interfaces. <i>Progress in Surface Science</i> , 1997, 55, 181-269.	3.8	60
59	Complex Coacervate of Weakly Charged Polyelectrolytes: Diagram of States. <i>Macromolecules</i> , 2018, 51, 3788-3801.	2.2	60
60	Effect of the Soluble Block Size on Spherical Diblock Copolymer Micelles. <i>Macromolecules</i> , 2008, 41, 6555-6563.	2.2	58
61	Atomic Force Microscopy of Polymer Brushes: Colloidal versus Sharp Tips. <i>Langmuir</i> , 2010, 26, 8933-8940.	1.6	58
62	Modeling the Interactions between Polymer-Coated Surfaces. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10614-10624.	1.2	53
63	Injectable bottlebrush hydrogels with tissue-mimetic mechanical properties. <i>Science Advances</i> , 2022, 8, eabm2469.	4.7	53
64	A Self-Consistent Field Analysis of the Neurofilament Brush with Amino-Acid Resolution. <i>Biophysical Journal</i> , 2007, 93, 1421-1430.	0.2	51
65	Dendron brushes and dendronized polymers: a theoretical outlook. <i>Soft Matter</i> , 2014, 10, 2093-2101.	1.2	51
66	Hybridization at a Surface: The Role of Spacers in DNA Microarrays. <i>Langmuir</i> , 2006, 22, 11290-11304.	1.6	45
67	Staged Surface Patterning and Self-Assembly of Nanoparticles Functionalized with End-Grafted Block Copolymer Ligands. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9269-9274.	7.2	41
68	$\langle p \rangle_H$ -Triggered Block Copolymer Micelle-to-Micelle Phase Transition. <i>Physical Review Letters</i> , 2009, 103, 118301.	2.9	40
69	Mesogels. <i>Europhysics Letters</i> , 1991, 16, 337-341.	0.7	39
70	Reentrant Morphological Transitions in Copolymer Micelles with pH-Sensitive Corona. <i>Langmuir</i> , 2005, 21, 3229-3231.	1.6	39
71	Effect of the Ionic Strength and pH on the Equilibrium Structure of a Neurofilament Brush. <i>Biophysical Journal</i> , 2007, 93, 1452-1463.	0.2	39
72	Scaling theory of supermolecular structures in block copolymer-solvent systems: 2. Supercrystalline structures. <i>Polymer</i> , 1990, 31, 1312-1320.	1.8	38

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73	Field-Directed Self-Assembly with Locking Nanoparticles. <i>Nano Letters</i> , 2012, 12, 3814-3820.	4.5	38
74	Scaling Theory of Complex Coacervate Core Micelles. <i>ACS Macro Letters</i> , 2018, 7, 811-816.	2.3	38
75	Theory of adsorption of macromolecules in cylindrical pores and at surfaces of cylindrical shape. <i>Polymer</i> , 1982, 23, 1133-1142.	1.8	37
76	Monte Carlo Simulations of Tau Proteins: Effect of Phosphorylation. <i>Biophysical Journal</i> , 2010, 99, 2387-2397.	0.2	37
77	Charge-controlled nano-structuring in partially collapsed star-shaped macromolecules. <i>Soft Matter</i> , 2016, 12, 4846-4852.	1.2	34
78	Behavior of tethered polyelectrolytes in poor solvents. <i>Journal of Chemical Physics</i> , 1998, 108, 1175-1183.	1.2	33
79	Theory of supermolecular structures in polydisperse block copolymers: 2. Lamellar superstructure consisting of two-block copolymers. <i>Polymer</i> , 1991, 32, 1299-1308.	1.8	32
80	Coexistence of Crew-Cut and Starlike Spherical Micelles Composed of Copolymers with an Annealed Polyelectrolyte Block. <i>Macromolecules</i> , 2006, 39, 3628-3641.	2.2	32
81	Helicoidal Patterning of Nanorods with Polymer Ligands. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3123-3127.	7.2	32
82	Microphase Segregation in the Melts of Bottlebrush Block Copolymers. <i>Macromolecules</i> , 2020, 53, 2582-2593.	2.2	32
83	Theory of supermolecular structures in polydisperse block copolymers: 4. Cylindrical domains in binary mixtures of diblock copolymers and cylinder-lamellae transition. <i>Polymer</i> , 1992, 33, 343-351.	1.8	31
84	Polyelectrolytes tethered to a similarly charged surface. <i>Journal of Chemical Physics</i> , 2001, 114, 7700-7712.	1.2	31
85	Scaling Theory of 3-Miktoarm ABC Copolymer Micelles in Selective Solvent. <i>Macromolecules</i> , 2008, 41, 5934-5944.	2.2	31
86	Molecular dynamics simulations of a polyelectrolyte star in poor solvent. <i>Soft Matter</i> , 2010, 6, 1872.	1.2	31
87	Theory of Morphological Transitions in Weakly Dissociating Diblock Polyelectrolyte Micelles. <i>Macromolecules</i> , 2005, 38, 6726-6741.	2.2	30
88	Interpolyelectrolyte Complexes between Starlike and Linear Macromolecules: A Structural Model for Nonviral Gene Vectors. <i>Langmuir</i> , 2009, 25, 1915-1918.	1.6	30
89	Effect of Block Copolymer Architecture on Morphology of Self-Assembled Aggregates in Solution. <i>ACS Macro Letters</i> , 2013, 2, 292-295.	2.3	30
90	Theory of supermolecular structures in polydisperse block copolymers: 3. Cylindrical layers of bidisperse chains. <i>Polymer</i> , 1992, 33, 332-342.	1.8	29

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91	On the Curvature Energy of a Thin Membrane Decorated by Polymer Brushes. <i>Macromolecules</i> , 2008, 41, 478-488.	2.2	29
92	Theory of Brushes Formed by \hat{I} -Shaped Macromolecules at Solid-Liquid Interfaces. <i>Langmuir</i> , 2015, 31, 6514-6522.	1.6	29
93	How the projection domains of NF-L and \hat{I} -internexin determine the conformations of NF-M and NF-H in neurofilaments. <i>European Biophysics Journal</i> , 2010, 39, 1323-1334.	1.2	28
94	Solution and Melts of Barbwire Bottlebrushes: Hierarchical Structure and Scale-Dependent Elasticity. <i>Macromolecules</i> , 2019, 52, 1671-1684.	2.2	28
95	Interactions between Brushes of Root-Tethered Dendrons. <i>Macromolecules</i> , 2014, 47, 6932-6945.	2.2	27
96	Brushes of Cycled Macromolecules: Structure and Lubricating Properties. <i>Macromolecules</i> , 2016, 49, 8758-8767.	2.2	27
97	Computer simulation of polymers in thin layers. II. Structure of polymer melt layers consisting of end-grafted chains. <i>Journal of Chemical Physics</i> , 1991, 95, 4691-4697.	1.2	26
98	Ideal Mixing in Multicomponent Brushes of Branched Polymers. <i>Macromolecules</i> , 2015, 48, 8025-8035.	2.2	26
99	A "Jumping Micelle" Phase Transition. <i>Macromolecules</i> , 1996, 29, 7637-7640.	2.2	25
100	Structure of Adsorbed Polyampholyte Layers at Charged Objects. <i>Macromolecules</i> , 2001, 34, 627-639.	2.2	25
101	Adsorption of Tethered Polyelectrolytes onto Oppositely Charged Solid-Liquid Interfaces. <i>Langmuir</i> , 2001, 17, 1277-1293.	1.6	25
102	Conformations and Solution Properties of Star-Branched Polyelectrolytes. <i>Advances in Polymer Science</i> , 2010, , 1-55.	0.4	25
103	An Annealed Polyelectrolyte Brush in a Polar-Nonpolar Binary Solvent: Effect of pH and Ionic Strength. <i>Macromolecules</i> , 2002, 35, 4739-4752.	2.2	24
104	Persistence Length of Dendritic Molecular Brushes. <i>ACS Macro Letters</i> , 2012, 1, 1166-1169.	2.3	23
105	Persistence length of dendronized polymers: the self-consistent field theory. <i>Soft Matter</i> , 2015, 11, 9367-9378.	1.2	22
106	Self-consistent field theory of polyelectrolyte brushes with finite chain extensibility. <i>Journal of Chemical Physics</i> , 2017, 146, 214901.	1.2	22
107	Effect of a Polymer Brush on Capillary Condensation. <i>Langmuir</i> , 2001, 17, 4459-4466.	1.6	21
108	The Polymer Brush Model of Neurofilament Projections: Effect of Protein Composition. <i>Biophysical Journal</i> , 2010, 98, 462-469.	0.2	21

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109	Brushes of Dendritically Branched Polyelectrolytes. <i>Macromolecules</i> , 2015, 48, 1499-1508.	2.2	21
110	Absorption of a Polyelectrolyte Brush into an Oppositely Charged Layer. <i>Macromolecules</i> , 1998, 31, 7413-7422.	2.2	20
111	Dendron and Hyperbranched Polymer Brushes in Good and Poor Solvents. <i>Langmuir</i> , 2017, 33, 1315-1325.	1.6	20
112	Association of Ionized Polymer Micelles with Oppositely Charged Polyelectrolytes. <i>Macromolecules</i> , 2001, 34, 5053-5066.	2.2	19
113	On the polyelectrolyte brush model of neurofilaments. <i>Soft Matter</i> , 2009, 5, 2836.	1.2	19
114	Morphological Transitions in Patchy Nanoparticles. <i>ACS Nano</i> , 2020, 14, 4577-4584.	7.3	19
115	Structure of dense polymer layers between end-grafting and end-adsorbing walls. <i>Macromolecules</i> , 1992, 25, 754-758.	2.2	18
116	Theory of supermolecular structures in polydisperse block copolymers: 5. New double cylindrical structure in binary mixture of cylinder-forming diblock copolymers. <i>Polymer</i> , 1992, 33, 2750-2756.	1.8	18
117	Amphiphilic Polymer Brush in a Mixture of Incompatible Liquids. Numerical Self-Consistent-Field Calculations. <i>Macromolecules</i> , 2000, 33, 1072-1081.	2.2	18
118	Stretching of Polyelectrolyte Coils and Globules in an Elongational Flow. <i>Macromolecules</i> , 1995, 28, 7180-7187.	2.2	17
119	Static Forces in Confined Polyelectrolyte Layers. <i>Macromolecules</i> , 2000, 33, 3488-3491.	2.2	17
120	Analytical self-consistent field model of arm-grafted starlike polymers in nonlinear elasticity regime. <i>Polymer</i> , 2014, 55, 5160-5167.	1.8	17
121	Helicoidal Patterning of Gold Nanorods by Phase Separation in Mixed Polymer Brushes. <i>Langmuir</i> , 2019, 35, 15872-15879.	1.6	17
122	Using tethered triblock copolymers to mediate the interaction between substrates. <i>Journal of Chemical Physics</i> , 1998, 108, 5981-5989.	1.2	16
123	Hybridization Isotherms of DNA Microarrays and the Quantification of Mutation Studies. <i>Clinical Chemistry</i> , 2004, 50, 2254-2262.	1.5	16
124	Structure and properties of polydisperse polyelectrolyte brushes studied by self-consistent field theory. <i>Soft Matter</i> , 2018, 14, 6230-6242.	1.2	16
125	Brush Theory of Tethered Chains with a Charged Group at the Free End. <i>Macromolecules</i> , 1997, 30, 584-589.	2.2	15
126	Collapse of a weak polyelectrolyte star in a poor solvent. <i>Soft Matter</i> , 2012, 8, 9446.	1.2	15

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127	Interaction forces and lubrication of dendronized surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 27, 50-56.	3.4	15
128	Structure and stabilizing properties of grafted polymer layers in a polymer medium. <i>Journal of Colloid and Interface Science</i> , 1991, 144, 507-520.	5.0	14
129	Adsorption Isotherms of Polyampholytes at Charged Spherical Particles. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8917-8930.	1.2	14
130	Theory of Microphase Segregation in the Melts of Copolymers with Dendritically Branched, Bottlebrush, or Cycled Blocks. <i>ACS Macro Letters</i> , 2019, 8, 1075-1079.	2.3	14
131	Self-Assembly of Linear-Dendritic and Double Dendritic Block Copolymers: From Dendromicelles to Dendrimersomes. <i>Macromolecules</i> , 2019, 52, 3655-3667.	2.2	14
132	Grafted macromolecules with adsorbing ends. <i>Journal of Chemical Physics</i> , 1996, 105, 2119-2126.	1.2	13
133	Conformations of polyelectrolyte molecular brushes: A mean-field theory. <i>Journal of Chemical Physics</i> , 2018, 149, 184904.	1.2	13
134	Charged block copolymer mesogels. <i>Macromolecules</i> , 1993, 26, 6273-6283.	2.2	12
135	The effect of tethered polymers on the conformation of a lipid membrane. <i>Macromolecular Theory and Simulations</i> , 1997, 6, 1169-1176.	0.6	12
136	Repulsive Forces between Spherical Polyelectrolyte Brushes in Salt-Free Solution. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 625-643.	1.4	12
137	Theory of Linear-Dendritic Block Copolymer Micelles. <i>ACS Macro Letters</i> , 2018, 7, 42-46.	2.3	12
138	Wetting of a Polymer Brush, a System with Pronounced Critical Wetting. <i>Langmuir</i> , 2000, 16, 7082-7087.	1.6	11
139	Deformation of a Polymer Brush Immersed in a Binary Solvent. <i>Macromolecular Theory and Simulations</i> , 2001, 10, 719.	0.6	11
140	Modeling the Interactions between Atomic Force Microscope Tips and Polymeric Substrates. <i>Langmuir</i> , 1998, 14, 4615-4622.	1.6	10
141	Proteins and Polyampholytes Interacting with Polyelectrolyte Brushes and Microgels: The Charge Reversal Concept Revised. <i>Langmuir</i> , 2021, 37, 2865-2873.	1.6	10
142	Patterned Polymer Films. <i>MRS Bulletin</i> , 1997, 22, 16-21.	1.7	9
143	Amphiphilic polymer brush in a mixture of incompatible liquids. <i>Macromolecular Theory and Simulations</i> , 2000, 9, 47-55.	0.6	9
144	Theory of self-assembly of triblock ter-polymers in selective solvent towards corona-compartmentalized (Janus) micelles. <i>Polymer</i> , 2013, 54, 2043-2048.	1.8	9

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145	Star Brushes Under Deformation: Structure and Thermodynamics. <i>Macromolecular Symposia</i> , 2015, 348, 33-43.	0.4	9
146	Monte Carlo Simulation of the Neurofilament Brush. <i>Israel Journal of Chemistry</i> , 2016, 56, 599-606.	1.0	9
147	Temperature-Induced Re-Entrant Morphological Transitions in Block-Copolymer Micelles. <i>Langmuir</i> , 2019, 35, 2680-2691.	1.6	9
148	Electroresponsive Polyelectrolyte Brushes Studied by Self-Consistent Field Theory. <i>Polymers</i> , 2020, 12, 898.	2.0	9
149	Effect of the Ionic Strength on Collapse Transition in Star-like Polyelectrolytes. <i>Macromolecular Symposia</i> , 2009, 278, 24-31.	0.4	8
150	Structure and lubrication of solvent-free dendron brushes. <i>Polymer</i> , 2017, 120, 223-235.	1.8	8
151	Self-Assembly of Bottlebrush Block Copolymers in Selective Solvent: Micellar Structures. <i>Polymers</i> , 2021, 13, 1351.	2.0	8
152	Bottlebrush polymer gels: architectural control over swelling and osmotic bulk modulus. <i>Soft Matter</i> , 2022, 18, 1239-1246.	1.2	8
153	Attraction and Novel Phase Behavior between Like-Charged Polymer Layers. <i>Macromolecules</i> , 1997, 30, 7004-7007.	2.2	7
154	On the charge overcompensation of quenched polyelectrolyte stars electrostatically adsorbed onto a quenched oppositely charged planar surface. <i>Journal of Chemical Physics</i> , 2003, 118, 969-980.	1.2	7
155	Brushes and lamellar mesophases of comb-shaped (co)polymers: a self-consistent field theory. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23385-23398.	1.3	7
156	Theory of planar polyelectrolyte brush immersed in solution of asymmetric salt. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1994, 86, 11-24.	2.3	6
157	Polymer Networks Formed by Molecular Brushes: Scaling Theory. <i>Polymer Science - Series A</i> , 2019, 61, 799-804.	0.4	6
158	Micelles Formed by an AB Copolymer with Bottlebrush Blocks: Scaling Theory. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12603-12616.	1.2	6
159	Colloidal particles interacting with a polymer brush: a self-consistent field theory. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8463-8476.	1.3	6
160	Scaling theory of supermolecular structures in block copolymer-solvent systems: 3. New bitetrahedral superstructure of star-branched block copolymers. <i>Polymer</i> , 1990, 31, 2197-2200.	1.8	5
161	The behavior of grafted polymers in restricted geometries under poor solvent conditions. <i>Journal of Chemical Physics</i> , 1996, 104, 727-735.	1.2	5
162	Modeling of the 3RS tau protein with self-consistent field method and Monte Carlo simulation. <i>Soft Matter</i> , 2010, 6, 5533.	1.2	5

#	ARTICLE	IF	CITATIONS
163	Theory of Microphase Segregation in ABA Triblock Comb-Shaped Copolymers: Lamellar Mesophase. <i>Macromolecules</i> , 2021, 54, 4747-4759.	2.2	5
164	Impact of Macromolecular Architecture on Bending Rigidity of Dendronized Surfaces. <i>Macromolecules</i> , 2018, 51, 3315-3329.	2.2	4
165	Dendron Brushes in Polymer Medium: Interpenetration and Depletion. <i>Macromolecules</i> , 2020, 53, 387-397.	2.2	4
166	Effect of chain architecture on properties of self-assembled dendron brushes. <i>Polymer</i> , 2018, 144, 142-149.	1.8	3
167	Planar Brush of End-Tethered Molecular Bottle-Brushes. Scaling Mode. <i>Polymer Science - Series C</i> , 2018, 60, 76-83.	0.8	3
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181	Responsive Polymer Brushes: Theoretical Outlook. , 0, , 6986-6998.		0
182	Solvent-Mediated Isolation of Polymer-Grafted Nanoparticles. Macromolecules, 2020, 53, 4533-4540.	2.2	0