

Andrey V Dobrynin

List of Publications by Year in descending order

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170
papers

11,975
citations

34493

54
h-index

33145

104
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172
all docs

172
docs citations

172
times ranked

11028
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory of polyelectrolytes in solutions and at surfaces. <i>Progress in Polymer Science</i> , 2005, 30, 1049-1118.	11.8	1,268
2	Scaling Theory of Polyelectrolyte Solutions. <i>Macromolecules</i> , 1995, 28, 1859-1871.	2.2	834
3	Solvent-free, supersoft and superelastic bottlebrush melts and networks. <i>Nature Materials</i> , 2016, 15, 183-189.	13.3	428
4	Cascade of Transitions of Polyelectrolytes in Poor Solvents. <i>Macromolecules</i> , 1996, 29, 2974-2979.	2.2	424
5	Extraction of a hydrophilic compound from water into liquid CO ₂ using dendritic surfactants. <i>Nature</i> , 1997, 389, 368-371.	13.7	379
6	Chameleon-like elastomers with molecularly encoded strain-adaptive stiffening and coloration. <i>Science</i> , 2018, 359, 1509-1513.	6.0	345
7	Mimicking biological stress-strain behaviour with synthetic elastomers. <i>Nature</i> , 2017, 549, 497-501.	13.7	286
8	Polyampholytes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3513-3538.	2.4	269
9	Elastic Modulus and Equilibrium Swelling of Polyelectrolyte Gels. <i>Macromolecules</i> , 1996, 29, 398-406.	2.2	251
10	Theory and simulations of charged polymers: From solution properties to polymeric nanomaterials. <i>Current Opinion in Colloid and Interface Science</i> , 2008, 13, 376-388.	3.4	250
11	Investigation of the Swelling Response and Loading of Ionic Microgels with Drugs and Proteins: The Dependence on Cross-Link Density. <i>Macromolecules</i> , 1999, 32, 4867-4878.	2.2	231
12	Dynamics of Semidilute Polyelectrolyte Solutions. <i>Physical Review Letters</i> , 1994, 73, 2776-2779.	2.9	184
13	Conductive Thin Films of Pristine Graphene by Solvent Interface Trapping. <i>ACS Nano</i> , 2013, 7, 7062-7066.	7.3	171
14	Shapeshifting: Reversible Shape Memory in Semicrystalline Elastomers. <i>Macromolecules</i> , 2014, 47, 1768-1776.	2.2	171
15	Adsorption of Polyelectrolytes at Oppositely Charged Surfaces. <i>Macromolecules</i> , 2001, 34, 3421-3436.	2.2	170
16	Polyelectrolytes in Salt Solutions: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2011, 44, 5798-5816.	2.2	156
17	Bottlebrush Elastomers: A New Platform for Freestanding Electroactuation. <i>Advanced Materials</i> , 2017, 29, 1604209.	11.1	150
18	Associations leading to formation of reversible networks and gels. <i>Current Opinion in Colloid and Interface Science</i> , 1999, 4, 83-87.	3.4	142

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19	Hydrophobic Polyelectrolytes. <i>Macromolecules</i> , 1999, 32, 915-922.	2.2	140
20	Universality in Nonlinear Elasticity of Biological and Polymeric Networks and Gels. <i>Macromolecules</i> , 2011, 44, 140-146.	2.2	140
21	Architectural Code for Rubber Elasticity: From Supersoft to Superfirm Materials. <i>Macromolecules</i> , 2019, 52, 7531-7546.	2.2	137
22	Biodegradable Shape Memory Polymers in Medicine. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700694.	3.9	136
23	Electrostatic Persistence Length of Semiflexible and Flexible Polyelectrolytes. <i>Macromolecules</i> , 2005, 38, 9304-9314.	2.2	120
24	Combs and Bottlebrushes in a Melt. <i>Macromolecules</i> , 2017, 50, 3430-3437.	2.2	117
25	Counterion Condensation and Phase Separation in Solutions of Hydrophobic Polyelectrolytes. <i>Macromolecules</i> , 2001, 34, 1964-1972.	2.2	107
26	Computer-aided comparative investigation of architecture influence on block copolymer phase diagrams. <i>Macromolecules</i> , 1993, 26, 276-281.	2.2	106
27	Molecular Dynamics Simulations of Polyelectrolyte Adsorption. <i>Langmuir</i> , 2007, 23, 2472-2482.	1.6	104
28	Counterion-Correlation-Induced Attraction and Necklace Formation in Polyelectrolyte Solutions:Â Theory and Simulations. <i>Macromolecules</i> , 2006, 39, 1920-1938.	2.2	103
29	Adsorption of Polyelectrolytes at an Oppositely Charged Surface. <i>Physical Review Letters</i> , 2000, 84, 3101-3104.	2.9	100
30	Molecular Dynamics Simulations of Polyelectrolyte Solutions:Â Osmotic Coefficient and Counterion Condensation. <i>Macromolecules</i> , 2003, 36, 3399-3410.	2.2	97
31	Nonlinear Elasticity: From Single Chain to Networks and Gels. <i>Macromolecules</i> , 2013, 46, 3679-3692.	2.2	88
32	Electrophoresis of polyampholytes. <i>Journal of Chemical Physics</i> , 1998, 108, 1234-1244.	1.2	85
33	Molecular Dynamics Simulations of Polyelectrolyte Solutions:Â Nonuniform Stretching of Chains and Scaling Behavior. <i>Macromolecules</i> , 2003, 36, 3386-3398.	2.2	85
34	Flory Theory of a Polyampholyte Chain. <i>Journal De Physique II</i> , 1995, 5, 677-695.	0.9	84
35	Adsorption of a Polyampholyte Chain on a Charged Surface. <i>Macromolecules</i> , 1997, 30, 4332-4341.	2.2	84
36	Scaling Theory of Diblock Polyampholyte Solutions. <i>Macromolecules</i> , 2005, 38, 8870-8881.	2.2	83

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37	Polyelectrolyte spin assembly: Influence of ionic strength on the growth of multilayered thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3654-3666.	2.4	82
38	Molecular Dynamics Simulations of Polyelectrolyte Brushes: From Single Chains to Bundles of Chains. <i>Langmuir</i> , 2007, 23, 12716-12728.	1.6	81
39	Adhesion of Nanoparticles. <i>Langmuir</i> , 2010, 26, 12973-12979.	1.6	81
40	Computer Simulations of Bottle Brushes: From Melts to Soft Networks. <i>Macromolecules</i> , 2015, 48, 5006-5015.	2.2	80
41	Light-Scattering Study of Diblock Copolymers in Supercritical Carbon Dioxide: CO ₂ Density-Induced Micellization Transition. <i>Macromolecules</i> , 1998, 31, 7347-7355.	2.2	78
42	Stabilization of Graphene Sheets by a Structured Benzene/Hexafluorobenzene Mixed Solvent. <i>Journal of the American Chemical Society</i> , 2012, 134, 5018-5021.	6.6	73
43	Adhesion and Wetting of Nanoparticles on Soft Surfaces. <i>Macromolecules</i> , 2014, 47, 3203-3209.	2.2	73
44	Programming temporal shapeshifting. <i>Nature Communications</i> , 2016, 7, 12919.	5.8	72
45	Molecular Dynamics Simulations of Multilayer Films of Polyelectrolytes and Nanoparticles. <i>Langmuir</i> , 2006, 22, 4629-4637.	1.6	68
46	Necklace Globule and Counterion Condensation. <i>Macromolecules</i> , 2007, 40, 7695-7706.	2.2	68
47	Dynamics of Dual Networks: Strain Rate and Temperature Effects in Hydrogels with Reversible H-Bonds. <i>Macromolecules</i> , 2017, 50, 652-659.	2.2	66
48	Supersoft and Hyperelastic Polymer Networks with Brushlike Strands. <i>Macromolecules</i> , 2018, 51, 638-645.	2.2	64
49	Effect of Counterion Condensation on Rigidity of Semiflexible Polyelectrolytes. <i>Macromolecules</i> , 2006, 39, 9519-9527.	2.2	63
50	Chains Are More Flexible Under Tension. <i>Macromolecules</i> , 2010, 43, 9181-9190.	2.2	63
51	Morphologies of Planar Polyelectrolyte Brushes in a Poor Solvent: Molecular Dynamics Simulations and Scaling Analysis. <i>Langmuir</i> , 2009, 25, 13158-13168.	1.6	61
52	Universality of the Entanglement Plateau Modulus of Comb and Bottlebrush Polymer Melts. <i>Macromolecules</i> , 2018, 51, 10028-10039.	2.2	61
53	Perfect mixing of immiscible macromolecules at fluid interfaces. <i>Nature Materials</i> , 2013, 12, 735-740.	13.3	60
54	Bottlebrush Bridge between Soft Gels and Firm Tissues. <i>ACS Central Science</i> , 2020, 6, 413-419.	5.3	56

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55	Molecular Dynamics Simulations of Multilayer Polyelectrolyte Films: Effect of Electrostatic and Short-Range Interactions. <i>Langmuir</i> , 2006, 22, 9994-10002.	1.6	55
56	Effect of Short-Range Interactions on Polyelectrolyte Adsorption at Charged Surfaces. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8260-8269.	1.2	54
57	Detailed Molecular Dynamics Simulations of a Model NaPSS in Water. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9391-9399.	1.2	54
58	Molecular Dynamics Simulations of Electrostatic Layer-by-Layer Self-Assembly. <i>Physical Review Letters</i> , 2004, 93, 037801.	2.9	53
59	Molecular Dynamics Simulations of Polyelectrolyte-Polyampholyte Complexes. Effect of Solvent Quality and Salt Concentration. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24652-24665.	1.2	53
60	Hydrophobically Modified Polyelectrolytes in Dilute Salt-Free Solutions. <i>Macromolecules</i> , 2000, 33, 8097-8105.	2.2	52
61	Nucleation-Controlled Polymerization of Nanoparticles into Supramolecular Structures. <i>Journal of the American Chemical Society</i> , 2013, 135, 11417-11420.	6.6	52
62	Molecular Dynamics Simulations of Layer-by-Layer Assembly of Polyelectrolytes at Charged Surfaces: Effects of Chain Degree of Polymerization and Fraction of Charged Monomers. <i>Langmuir</i> , 2005, 21, 6113-6122.	1.6	51
63	Persistence length of polyelectrolytes with precisely located charges. <i>Soft Matter</i> , 2013, 9, 90-98.	1.2	50
64	Polymer/Pristine Graphene Based Composites: From Emulsions to Strong, Electrically Conducting Foams. <i>Macromolecules</i> , 2015, 48, 687-693.	2.2	50
65	Theory of Polydisperse Multiblock Copolymers. <i>Macromolecules</i> , 1997, 30, 4756-4765.	2.2	48
66	Long-Range Multichain Adsorption of Polyampholytes on a Charged Surface. <i>Macromolecules</i> , 1999, 32, 5689-5700.	2.2	46
67	Polymeric Droplets on Soft Surfaces: From Neumann's Triangle to Young's Law. <i>Macromolecules</i> , 2015, 48, 443-451.	2.2	46
68	Rouse Dynamics of Polyelectrolyte Solutions: A Molecular Dynamics Study. <i>Macromolecules</i> , 2007, 40, 7671-7679.	2.2	43
69	Friction between Brush Layers of Charged and Neutral Bottle-Brush Macromolecules. <i>Molecular Dynamics Simulations. Langmuir</i> , 2011, 27, 14599-14608.	1.6	43
70	Comb and Bottlebrush Graft Copolymers in a Melt. <i>Macromolecules</i> , 2019, 52, 3942-3950.	2.2	41
71	Interaction between Brush Layers of Bottle-Brush Polyelectrolytes: Molecular Dynamics Simulations. <i>Langmuir</i> , 2011, 27, 11044-11051.	1.6	40
72	Adsorption of Hydrophobic Polyelectrolytes at Oppositely Charged Surfaces. <i>Macromolecules</i> , 2002, 35, 2754-2768.	2.2	39

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73	Molecular Dynamics Simulations of Polyampholyte~Polyelectrolyte Complexes in Solutions. <i>Macromolecules</i> , 2005, 38, 5300-5312.	2.2	39
74	Contact Mechanics of Nanoparticles. <i>Langmuir</i> , 2012, 28, 10881-10890.	1.6	39
75	Entropy-driven segregation of polymer-grafted nanoparticles under confinement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2462-2467.	3.3	38
76	Combined Effect of Spin Speed and Ionic Strength on Polyelectrolyte Spin Assembly. <i>Langmuir</i> , 2007, 23, 12589-12597.	1.6	36
77	Elastocapillarity: Adhesion and Wetting in Soft Polymeric Systems. <i>Macromolecules</i> , 2014, 47, 6515-6521.	2.2	36
78	Dynamics of Bottlebrush Networks. <i>Macromolecules</i> , 2016, 49, 8009-8017.	2.2	36
79	Distribution of Chains in Polymer Brushes Produced by a "Grafting From" Mechanism. <i>Macromolecules</i> , 2016, 49, 547-553.	2.2	36
80	"Grafting-Through" Growing Polymer Brushes by Supplying Monomers through the Surface. <i>Macromolecules</i> , 2016, 49, 2477-2483.	2.2	35
81	Phase Diagram of Solutions of Associative Polymers. <i>Macromolecules</i> , 2004, 37, 3881-3893.	2.2	34
82	Scale-Dependent Electrostatic Stiffening in Biopolymers. <i>Macromolecules</i> , 2009, 42, 5851-5860.	2.2	34
83	Ultra-Tough Elastomers from Stereochemistry-Directed Hydrogen Bonding in Isosorbide-Based Polymers. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	34
84	±-Amino Acid-Based Poly(Ester urea)s as Multishape Memory Polymers for Biomedical Applications. <i>ACS Macro Letters</i> , 2016, 5, 1176-1179.	2.3	32
85	Strained Bottlebrushes in Super-Soft Physical Networks. <i>ACS Macro Letters</i> , 2019, 8, 530-534.	2.3	32
86	Microphase Segregation in the Melts of Bottlebrush Block Copolymers. <i>Macromolecules</i> , 2020, 53, 2582-2593.	2.2	32
87	A statistical theory of polydisperse block copolymer systems under weak supercrystallization. <i>Macromolecular Symposia</i> , 1994, 81, 253-315.	0.4	31
88	Effect of solvent quality on polyelectrolyte adsorption at an oppositely charged surface. <i>Journal of Chemical Physics</i> , 2001, 114, 8145-8153.	1.2	30
89	Monte Carlo simulation of homopolymer chains. I. Second virial coefficient. <i>Journal of Chemical Physics</i> , 2003, 118, 4721-4732.	1.2	30
90	Layer-by-Layer Assembly of Charged Nanoparticles on Porous Substrates: Molecular Dynamics Simulations. <i>ACS Nano</i> , 2011, 5, 3010-3019.	7.3	29

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91	Salt Effect on Osmotic Pressure of Polyelectrolyte Solutions: Simulation Study. <i>Polymers</i> , 2014, 6, 1897-1913.	2.0	29
92	Nonlinear Elasticity and Swelling of Comb and Bottlebrush Networks. <i>Macromolecules</i> , 2019, 52, 5095-5101.	2.2	29
93	Monte Carlo simulations of polyampholyte-polyelectrolyte complexes: Effect of charge sequence and strength of electrostatic interactions. <i>Physical Review E</i> , 2003, 67, 061803.	0.8	28
94	Molecular Visualization of Conformation-Triggered Flow Instability. <i>Physical Review Letters</i> , 2005, 94, 237801.	2.9	28
95	Molecular Dynamics Simulations of Polyelectrolyte Multilayering on a Charged Particle. <i>Langmuir</i> , 2005, 21, 1118-1125.	1.6	28
96	Flory Theorem for Structurally Asymmetric Mixtures. <i>Physical Review Letters</i> , 2007, 99, 137801.	2.9	28
97	Explicit Solvent Simulations of Friction between Brush Layers of Charged and Neutral Bottle-Brush Macromolecules. <i>Macromolecules</i> , 2012, 45, 8880-8891.	2.2	28
98	Nanoparticles as Adhesives for Soft Polymeric Materials. <i>Macromolecules</i> , 2016, 49, 3586-3592.	2.2	28
99	Sonication-induced scission of molecular bottlebrushes: Implications of the "hair" architecture. <i>Polymer</i> , 2016, 84, 178-184.	1.8	28
100	Layer-by-Layer Assembly of Polyelectrolyte Chains and Nanoparticles on Nanoporous Substrates: Molecular Dynamics Simulations. <i>Langmuir</i> , 2012, 28, 1531-1538.	1.6	27
101	Tunable Shape Memory Polymers from α -Amino Acid-Based Poly(ester urea)s. <i>Macromolecules</i> , 2017, 50, 4300-4308.	2.2	27
102	Boron Nitride Surface Activity as Route to Composite Dielectric Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16913-16916.	4.0	26
103	Reduced Domain Size and Interfacial Width in Fast Ordering Nanofilled Block Copolymer Films by Direct Immersion Annealing. <i>Macromolecules</i> , 2016, 49, 8563-8571.	2.2	26
104	Controlled 3D Assembly of Graphene Sheets to Build Conductive, Chemically Selective and Shape-Responsive Materials. <i>Advanced Materials</i> , 2017, 29, 1604947.	11.1	26
105	When Do Polyelectrolytes Entangle?. <i>Macromolecules</i> , 2021, 54, 1859-1869.	2.2	26
106	Structure of Adsorbed Polyampholyte Layers at Charged Objects. <i>Macromolecules</i> , 2001, 34, 627-639.	2.2	25
107	Surface Stress and Surface Tension in Polymeric Networks. <i>ACS Macro Letters</i> , 2018, 7, 116-121.	2.3	25
108	From Adhesion to Wetting: Contact Mechanics at the Surfaces of Super-Soft Brush-Like Elastomers. <i>ACS Macro Letters</i> , 2017, 6, 854-858.	2.3	24

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109	Surface Stresses and a Force Balance at a Contact Line. <i>Langmuir</i> , 2018, 34, 7497-7502.	1.6	24
110	Sugar-Based Polymers with Stereochemistry-Dependent Degradability and Mechanical Properties. <i>Journal of the American Chemical Society</i> , 2022, 144, 1243-1250.	6.6	24
111	Polyampholyte solutions between charged surfaces: Debye-Huckel theory. <i>Journal of Chemical Physics</i> , 1998, 109, 9172-9176.	1.2	23
112	Adhesion and Wetting of Soft Nanoparticles on Textured Surfaces: Transition between Wenzel and Cassie-Baxter States. <i>Langmuir</i> , 2015, 31, 1693-1703.	1.6	22
113	Polyelectrolytes: On the doorsteps of the second century. <i>Polymer</i> , 2020, 202, 122714.	1.8	22
114	Conformations of molten diblock copolymer macromolecules near the point of microphase separation transition. <i>Macromolecules</i> , 1992, 25, 4411-4413.	2.2	21
115	How To Measure Work of Adhesion and Surface Tension of Soft Polymeric Materials. <i>Macromolecules</i> , 2018, 51, 4059-4067.	2.2	21
116	Quantifying the Effect of Multivalent Ions in Polyelectrolyte Solutions. <i>Macromolecules</i> , 2021, 54, 9577-9586.	2.2	21
117	Dynamics of nanoparticle adhesion. <i>Journal of Chemical Physics</i> , 2012, 137, 214902.	1.2	20
118	Molecular Dynamics Simulations of Grafted Layers of Bottle-Brush Polyelectrolytes. <i>Langmuir</i> , 2010, 26, 18374-18381.	1.6	19
119	Scattering from Melts of Combs and Bottlebrushes: Molecular Dynamics Simulations and Theoretical Study. <i>Macromolecules</i> , 2019, 52, 5555-5562.	2.2	19
120	Tissue-Mimetic Dielectric Actuators: Free-Standing, Stable, and Solvent-Free. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1741-1745.	2.0	19
121	Small-Angle Neutron Scattering Analysis of Blends with Very Strong Intermolecular Interactions: Polyamide/Ionomer Blends. <i>Macromolecules</i> , 2003, 36, 4404-4410.	2.2	18
122	Molecular Dynamics Simulations of Nanoimprinting Lithography. <i>Langmuir</i> , 2009, 25, 13244-13249.	1.6	18
123	Phase coexistence in random copolymers. <i>Journal of Chemical Physics</i> , 1997, 107, 9234-9238.	1.2	17
124	Adsorption of a polyampholyte on a charged spherical particle. <i>European Physical Journal E</i> , 2001, 5, 41-49.	0.7	17
125	A Case Study of Truncated Electrostatics for Simulation of Polyelectrolyte Brushes on GPU Accelerators. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 73-83.	2.3	17
126	Computer Simulations of Continuous 3-D Printing. <i>Macromolecules</i> , 2017, 50, 7794-7800.	2.2	17

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127	Molecular Dynamics Simulations of Surface and Interfacial Tension of Graft Polymer Melts. <i>Langmuir</i> , 2018, 34, 12974-12981.	1.6	17
128	Fluctuation Theory of Random Copolymers. <i>Journal De Physique, I</i> , 1995, 5, 365-377.	1.2	17
129	Effect of the Electrostatic Interactions on Stretching of Semiflexible and Biological Polyelectrolytes. <i>Macromolecules</i> , 2010, 43, 2589-2604.	2.2	16
130	Contact Mechanics of Nanoparticles: Pulling Rigid Nanoparticles from Soft, Polymeric Surfaces. <i>Langmuir</i> , 2015, 31, 12520-12529.	1.6	16
131	Brush Architecture and Network Elasticity: Path to the Design of Mechanically Diverse Elastomers. <i>Macromolecules</i> , 2022, 55, 2940-2951.	2.2	16
132	Nanoparticle-Textured Surfaces from Spin Coating. <i>Langmuir</i> , 2008, 24, 5218-5220.	1.6	15
133	Strain-Adaptive Self-Assembled Networks of Linear-Bottlebrush-Linear Copolymers. <i>Macromolecules</i> , 2019, 52, 8617-8624.	2.2	15
134	Independently Tuning Elastomer Softness and Firmness by Incorporating Side Chain Mixtures into Bottlebrush Network Strands. <i>Macromolecules</i> , 2020, 53, 9306-9312.	2.2	15
135	Scaling of Polymer Solutions as a Quantitative Tool. <i>Macromolecules</i> , 2021, 54, 2288-2295.	2.2	15
136	Theory of random copolymers near the Lifshitz point. <i>Europhysics Letters</i> , 1996, 36, 283-288.	0.7	14
137	Adsorption Isotherms of Polyampholytes at Charged Spherical Particles. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8917-8930.	1.2	14
138	Stabilization of fluorophore in DNA thin films. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	13
139	Sierpiński Pyramids by Molecular Entanglement. <i>Journal of the American Chemical Society</i> , 2020, 142, 5526-5530.	6.6	13
140	Swelling of biological and semiflexible polyelectrolytes. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 424112.	0.7	12
141	Molecular Dynamics Simulations of the Effect of Elastocapillarity on Reinforcement of Soft Polymeric Materials by Liquid Inclusions. <i>Macromolecules</i> , 2016, 49, 7108-7115.	2.2	12
142	Encoding tissue mechanics in silicone. <i>Science Robotics</i> , 2018, 3, .	9.9	12
143	Brush-Like Polymers and Entanglements: From Linear Chains to Filaments. <i>ACS Macro Letters</i> , 2019, 8, 1328-1333.	2.3	11
144	Quantifying Properties of Polysaccharide Solutions. <i>ACS Polymers Au</i> , 2021, 1, 196-205.	1.7	11

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145	Hierarchically Patterned Elastomeric and Thermoplastic Polymer Films through Nanoimprinting and Ultraviolet Light Exposure. <i>ACS Omega</i> , 2018, 3, 15426-15434.	1.6	10
146	Mechanically Diverse Gels with Equal Solvent Content. <i>ACS Central Science</i> , 2022, 8, 845-852.	5.3	10
147	Polyampholyte adsorption on a charged sphere. <i>Physical Review E</i> , 2001, 63, 051802.	0.8	9
148	Molding Block Copolymer Micelles: A Framework for Molding of Discrete Objects on Surfaces. <i>Langmuir</i> , 2008, 24, 12671-12679.	1.6	9
149	Polymer confinement and bacterial gliding motility. <i>European Physical Journal E</i> , 2005, 17, 361-372.	0.7	8
150	Microphase separation transition of random copolymers in a random media. <i>Physical Review E</i> , 1997, 56, 750-757.	0.8	7
151	From Graphene-like Sheet Stabilized Emulsions to Composite Polymeric Foams: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2018, 51, 7360-7367.	2.2	7
152	Charged Polymers: From Polyelectrolyte Solutions to Polyelectrolyte Complexes. <i>Macromolecules</i> , 2021, 54, 7183-7192.	2.2	7
153	Size Separation of Macromolecules during Spreading. <i>Langmuir</i> , 2010, 26, 15339-15344.	1.6	6
154	Universality in Solution Properties of Polymers in Ionic Liquids. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1966-1973.	2.0	6
155	Degradation of Films of Block Copolymers: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2020, 53, 1270-1280.	2.2	5
156	Fluctuation Theory of Charged AB-Random Copolymers. <i>Journal De Physique II</i> , 1995, 5, 1241-1253.	0.9	5
157	Glass Transition Versus Microphase Separation: a Phenomenological Replica-Field Theory for AB Copolymer Systems. <i>Journal De Physique, I</i> , 1995, 5, 657-669.	1.2	4
158	A Model of Polymeric Nanopropulsion Engine. <i>Macromolecules</i> , 2007, 40, 5171-5175.	2.2	3
159	Molecular dynamics simulations of bottlebrush macromolecules in two dimensional polymeric melts under flow conditions. <i>Soft Matter</i> , 2011, 7, 2805.	1.2	3
160	Electrical Conductivity of Graphene-Polymer Composite Foams: A Computational Study. <i>Macromolecules</i> , 2019, 52, 7379-7385.	2.2	3
161	Elastocapillarity and rolling dynamics of solid nanoparticles on soft elastic substrates. <i>Soft Matter</i> , 2020, 16, 2230-2237.	1.2	3
162	Bottlebrushes and Combs with Bimodal Distribution of the Side Chains: Diagram of States and Scattering Function. <i>Macromolecules</i> , 2021, 54, 1818-1828.	2.2	3

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163	Theory and Simulations of Hybrid Networks. <i>Macromolecules</i> , 2021, 54, 7337-7346.	2.2	3
164	Rolling Dynamics of Nanoscale Elastic Shells Driven by Active Particles. <i>ACS Central Science</i> , 2018, 4, 1537-1544.	5.3	2
165	Gluing Interfaces with Soft Nanoparticles. <i>Langmuir</i> , 2019, 35, 7277-7284.	1.6	2
166	Computationally Driven Design of Soft Materials with Tissue-like Mechanical Properties. <i>ACS Symposium Series</i> , 2018, , 33-50.	0.5	1
167	Deformation Model of Chains and Networks with Extendable Bonds. <i>Macromolecules</i> , 2020, 53, 10874-10881.	2.2	1
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169	Degradation of Block Copolymer Films Confined in Elastic Media: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2020, 53, 9460-9469.	2.2	0
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