

J-U Sommer

List of Publications by Year in descending order

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255
papers

7,528
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47006

47
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85541

71
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260
all docs

260
docs citations

260
times ranked

5110
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallization of Adsorbed Polymer Monolayers. <i>Physical Review Letters</i> , 1998, 80, 3771-3774.	7.8	239
2	Random Catalyst Walking along Polymerized Poly(3-hexylthiophene) Chains in Kumada Catalyst-Transfer Polycondensation. <i>Journal of the American Chemical Society</i> , 2010, 132, 7803-7810.	13.7	192
3	Direct Visualization of Random Crystallization and Melting in Arrays of Nanometer-Size Polymer Crystals. <i>Physical Review Letters</i> , 2001, 87, 226101.	7.8	187
4	On the Role of Single Regiodefects and Polydispersity in Regioregular Poly(3-hexylthiophene): Defect Distribution, Synthesis of Defect-Free Chains, and a Simple Model for the Determination of Crystallinity. <i>Journal of the American Chemical Society</i> , 2012, 134, 4790-4805.	13.7	185
5	Cross-Link Density Estimation of PDMS Networks with Precise Consideration of Networks Defects. <i>Macromolecules</i> , 2012, 45, 899-912.	4.8	174
6	¹ H multiple-quantum nuclear magnetic resonance investigations of molecular order distributions in poly(dimethylsiloxane) networks: Evidence for a linear mixing law in bimodal systems. <i>Journal of Chemical Physics</i> , 2003, 119, 3468-3482.	3.0	168
7	Polymer crystallization in quasi-two dimensions. I. Experimental results. <i>Journal of Chemical Physics</i> , 2000, 112, 4376-4383.	3.0	167
8	Connectivity and Structural Defects in Model Hydrogels: A Combined Proton NMR and Monte Carlo Simulation Study. <i>Macromolecules</i> , 2011, 44, 9666-9674.	4.8	161
9	Frozen Topology: Entanglements Control Nucleation and Crystallization in Polymers. <i>Physical Review Letters</i> , 2014, 112, 195702.	7.8	124
10	Polymer crystallization in quasi-two dimensions. II. Kinetic models and computer simulations. <i>Journal of Chemical Physics</i> , 2000, 112, 4384-4393.	3.0	116
11	Nanometer-Scale Surface Patterns with Long-Range Order Created by Crystallization of Diblock Copolymers. <i>Physical Review Letters</i> , 1999, 83, 3844-3847.	7.8	111
12	Polymer Brushes for Surface Tuning. <i>Macromolecular Rapid Communications</i> , 2009, 30, 732-740.	3.9	107
13	Growth Pathway and Precursor States in Single Lamellar Crystallization: MD Simulations. <i>Macromolecules</i> , 2011, 44, 1523-1529.	4.8	107
14	Static and dynamic properties of tethered chains at adsorbing surfaces: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2004, 120, 8831-8840.	3.0	93
15	Nanoparticle-Induced Permeability of Lipid Membranes. <i>ACS Nano</i> , 2012, 6, 10555-10561.	14.6	90
16	Statics and dynamics of dense copolymer melts: A Monte Carlo simulation study. <i>Journal of Chemical Physics</i> , 1997, 106, 6709-6721.	3.0	87
17	Thermodynamics of Formation, Reorganization, and Melting of Confined Nanometer-Sized Polymer Crystals. <i>Macromolecules</i> , 2003, 36, 1257-1260.	4.8	83
18	Liquidlike Morphological Transformations in Monolamellar Polymer Crystals. <i>Physical Review Letters</i> , 2001, 86, 5918-5921.	7.8	79

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19	Role of Thermal History and Entanglement Related Thickness Selection in Polymer Crystallization. ACS Macro Letters, 2016, 5, 30-34.	4.8	78
20	Properties of Dendrimers with Flexible Spacer-Chains: A Monte Carlo Study. Macromolecules, 2009, 42, 4878-4886.	4.8	76
21	Molecular dynamics simulations of polymer crystallization under confinement: Entanglement effect. Polymer, 2017, 109, 71-84.	3.8	75
22	Reversible Thermosensitive Biodegradable Polymeric Actuators Based on Confined Crystallization. Nano Letters, 2015, 15, 1786-1790.	9.1	72
23	Nanoscale Brushes: How to Build a Smart Surface Coating. Physical Review Letters, 2009, 102, 115702.	7.8	70
24	Coexistence of Melting and Growth during Heating of a Semicrystalline Polymer. Physical Review Letters, 2009, 102, 147801.	7.8	64
25	Disentanglement of Linear Polymer Chains Toward Unentangled Crystals. ACS Macro Letters, 2013, 2, 31-34.	4.8	62
26	Using Mean Field Theory to Guide Biofunctional Materials Design. Advanced Functional Materials, 2012, 22, 1391-1398.	14.9	61
27	Swelling Heterogeneities in End-Linked Model Networks: A Combined Proton Multiple-Quantum NMR and Computer Simulation Study. Macromolecules, 2004, 37, 8556-8568.	4.8	60
28	Mechanistic Insight into Catalyst-Transfer Polymerization of Unusual Anion-Radical Naphthalene Diimide Monomers: An Observation of Ni(0) Intermediates. Macromolecules, 2012, 45, 7770-7777.	4.8	60
29	Block copolymer films between neutral walls: A Monte Carlo study. Journal of Chemical Physics, 1999, 111, 3728-3732.	3.0	59
30	Static and Dynamic Properties of Polymer Brushes at Moderate and High Grafting Densities: A Molecular Dynamics Study. Macromolecules, 2007, 40, 6721-6730.	4.8	59
31	Fractal properties and swelling behavior of polymer networks. Journal of Chemical Physics, 1994, 100, 9181-9191.	3.0	57
32	Topological Structure and Nonaffine Swelling of Bimodal Polymer Networks. Macromolecules, 2002, 35, 9832-9843.	4.8	57
33	Structure and swelling of end-linked model networks. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 2649-2653.	1.7	56
34	Entanglements and Crystallization of Concentrated Polymer Solutions: Molecular Dynamics Simulations. Macromolecules, 2016, 49, 9017-9025.	4.8	56
35	Coding coarse grained polymer model for LAMMPS and its application to polymer crystallization. Computer Physics Communications, 2009, 180, 1382-1391.	7.5	55
36	Computer simulations of asymmetric block copolymers. Journal of Chemical Physics, 1997, 107, 7559-7570.	3.0	52

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37	Analysis of Entanglement Length and Segmental Order Parameter in Polymer Networks. Physical Review Letters, 2010, 104, 177801.	7.8	52
38	Morphologies of diblock copolymer thin films before and after crystallization. European Physical Journal E, 2000, 2, 319.	1.6	51
39	Grafted Polymer Chains Interacting with Substrates: Computer Simulations and Scaling. Macromolecular Theory and Simulations, 2008, 17, 429-453.	1.4	51
40	Molecular dynamics simulations of semicrystalline polymers: Crystallization, melting, and reorganization. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2222-2232.	2.1	51
41	Structure and swelling of polymer networks: insights from NMR. Soft Matter, 2013, 9, 6587.	2.7	51
42	Monte Carlo simulations of a single polymer chain under an external force in two and three dimensions. Physical Review E, 1994, 49, 5472-5476.	2.1	49
43	Entropy and enthalpy at play. Nature Materials, 2007, 6, 260-261.	27.5	49
44	Simulations of Terminally Charged Dendrimers with Flexible Spacer Chains and Explicit Counterions. Macromolecules, 2010, 43, 4418-4427.	4.8	49
45	Starlike Polymer Brushes. Macromolecules, 2011, 44, 7043-7049.	4.8	49
46	Adsorption-Attraction Model for Co-Nonsolvency in Polymer Brushes. Macromolecules, 2017, 50, 2219-2228.	4.8	49
47	Copolymers at Selective Interfaces. Europhysics Letters, 1995, 32, 407-412.	2.0	48
48	Reversibly Switchable Polymer Brushes with Hydrophobic/Hydrophilic Behavior: A Langevin Dynamics Study. Macromolecules, 2009, 42, 445-451.	4.8	48
49	Polyelectrolyte Brushes: Debye Approximation and Mean-Field Theory. Macromolecules, 2011, 44, 3109-3116.	4.8	48
50	Dynamical properties of randomly cross-linked polymer melts: A Monte Carlo study. I. Diffusion dynamics. Journal of Chemical Physics, 1993, 98, 7515-7520.	3.0	47
51	NMR Reveals Non-Distributed and Uniform Character of Network Chain Dynamics. Macromolecular Rapid Communications, 2007, 28, 1455-1465.	3.9	47
52	Inclusion Free Energy of Nanoparticles in Polymer Brushes. Macromolecules, 2012, 45, 8494-8501.	4.8	46
53	Reversible Shape-Memory Effect in Cross-Linked Linear Poly(ϵ -caprolactone) under Stress and Stress-Free Conditions. Macromolecules, 2017, 50, 3841-3854.	4.8	46
54	On the Structure of Star-Polymer Networks. Macromolecules, 2011, 44, 9464-9472.	4.8	45

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55	Effect of Topology on the Conformations of Ring Polymers. <i>Macromolecules</i> , 2012, 45, 7642-7648.	4.8	45
56	Homo-polymers with balanced hydrophobicity translocate through lipid bilayers and enhance local solvent permeability. <i>Soft Matter</i> , 2012, 8, 11714.	2.7	44
57	Biohybrid Networks of Selectively Desulfated Glycosaminoglycans for Tunable Growth Factor Delivery. <i>Biomacromolecules</i> , 2014, 15, 4439-4446.	5.4	43
58	Nanoparticles of Various Degrees of Hydrophobicity Interacting with Lipid Membranes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4069-4076.	4.6	41
59	Molecular Dynamics Simulation of Crystallization Cyclic Polymer Melts As Compared to Their Linear Counterparts. <i>Macromolecules</i> , 2017, 50, 9796-9806.	4.8	41
60	Translocation and Induced Permeability of Random Amphiphilic Copolymers Interacting with Lipid Bilayer Membranes. <i>Biomacromolecules</i> , 2015, 16, 125-135.	5.4	40
61	Short Cyclic Structures in Polymer Model Networks: A Test of Mean Field Approximation by Monte Carlo Simulations. <i>Macromolecules</i> , 2012, 45, 4886-4895.	4.8	39
62	Localization Transition of Random Copolymers at Interfaces. <i>Physical Review Letters</i> , 1998, 81, 4412-4415.	7.8	37
63	Segmental order in end-linked polymer networks: A Monte Carlo study. <i>European Physical Journal E</i> , 2005, 18, 167-182.	1.6	37
64	Surface Instabilities of Monodisperse and Densely Grafted Polymer Brushes. <i>Macromolecules</i> , 2008, 41, 5070-5072.	4.8	36
65	FRET-Integrated Polymer Brushes for Spatially Resolved Sensing of Changes in Polymer Conformation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16600-16606.	13.8	36
66	Swelling of Olympic Gels. <i>Physical Review Letters</i> , 2014, 112, 238001.	7.8	35
67	Interactions of Amphiphilic Triblock Copolymers with Lipid Membranes: Modes of Interaction and Effect on Permeability Examined by Generic Monte Carlo Simulations. <i>Macromolecules</i> , 2015, 48, 4724-4732.	4.8	35
68	Monte Carlo studies of polymer network formation. <i>Journal of Chemical Physics</i> , 1992, 96, 7102-7107.	3.0	34
69	Morphogenesis of lamellar polymer crystals. <i>Europhysics Letters</i> , 2001, 56, 755-761.	2.0	34
70	Effect of excluded volume on segmental orientation correlations in polymer chains. <i>Physical Review E</i> , 2008, 78, 051803.	2.1	34
71	Polyelectrolyte Brushes: MD Simulation and SCF Theory. <i>Macromolecules</i> , 2010, 43, 7845-7851.	4.8	34
72	Simulations of Dendrimers with Flexible Spacer Chains and Explicit Counterions under Low and Neutral pH Conditions. <i>Macromolecules</i> , 2010, 43, 10659-10667.	4.8	34

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73	Simulations of Neutral and Charged Dendrimers in Solvents of Varying Quality. <i>Macromolecules</i> , 2013, 46, 3107-3117.	4.8	33
74	Water around fullerene shape amphiphiles: A molecular dynamics simulation study of hydrophobic hydration. <i>Journal of Chemical Physics</i> , 2015, 142, 224308.	3.0	33
75	Two universality classes for random hyperbranched polymers. <i>Soft Matter</i> , 2014, 10, 4935.	2.7	32
76	Swelling Behavior of Single-Chain Polymer Nanoparticles: Theory and Simulation. <i>Macromolecules</i> , 2017, 50, 7410-7418.	4.8	32
77	Critical adsorption controls translocation of polymer chains through lipid bilayers and permeation of solvent. <i>Europhysics Letters</i> , 2012, 98, 18003.	2.0	31
78	Semianalytical Mean-Field Model for Starlike Polymer Brushes in Good Solvent. <i>Macromolecules</i> , 2013, 46, 1248-1252.	4.8	31
79	Stimuli-responsive hierarchically self-assembled 3D porous polymer-based structures with aligned pores. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1786.	5.8	31
80	Polyolefins Formed by Chain Walking Catalysis – A Matter of Branching Density Only?. <i>Journal of the American Chemical Society</i> , 2019, 141, 15586-15596.	13.7	31
81	Molecular dynamics simulations of polyelectrolyte brushes under poor solvent conditions: Origins of bundle formation. <i>Journal of Chemical Physics</i> , 2014, 140, 104911.	3.0	30
82	Co-Nonsolvency Transition of Poly(<i>N</i> -isopropylacrylamide) Brushes in a Series of Binary Mixtures. <i>Macromolecules</i> , 2019, 52, 6285-6293.	4.8	30
83	Comparison of structural properties of different polymer network types as obtained by computer simulation. <i>Journal of Chemical Physics</i> , 1999, 110, 12173-12182.	3.0	29
84	Polymer-induced entropic depletion potential. <i>Physical Review E</i> , 2011, 84, 041802.	2.1	29
85	Polyelectrolyte brushes in external fields: molecular dynamics simulations and mean-field theory. <i>Soft Matter</i> , 2015, 11, 5688-5696.	2.7	29
86	Reversibly Actuating Solid Janus Polymeric Fibers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4873-4881.	8.0	29
87	Lorentz forces induce inhomogeneity and flux in active systems. <i>Physical Review Research</i> , 2020, 2, .	3.6	29
88	Copolymers in asymmetric interface potentials: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 1996, 105, 8376-8384.	3.0	28
89	Crystallization in ultra-thin polymer films. <i>Thermochimica Acta</i> , 2005, 432, 135-147.	2.7	28
90	Coarse grained simulations of neutral and charged dendrimers. <i>Polymer Science - Series C</i> , 2013, 55, 125-153.	1.7	28

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91	Structure of Dendrimer Brushes: Mean-Field Theory and MD Simulations. <i>Macromolecules</i> , 2014, 47, 3645-3653.	4.8	28
92	Polymer-decorated tethered membranes under good- and poor-solvent conditions. <i>European Physical Journal E</i> , 2010, 31, 383-392.	1.6	27
93	Thermodynamics of Swollen Networks As Reflected in Segmental Orientation Correlations. <i>Macromolecules</i> , 2012, 45, 5513-5523.	4.8	27
94	Co-Nonsolvency Response of a Polymer Brush: A Molecular Dynamics Study. <i>Macromolecules</i> , 2019, 52, 4120-4130.	4.8	26
95	Irreversible adsorption of tethered chains at substrates: Monte Carlo study. <i>Journal of Chemical Physics</i> , 2006, 124, 094701.	3.0	25
96	Conformations of a Long Polymer in a Melt of Shorter Chains: Generalizations of the Flory Theorem. <i>ACS Macro Letters</i> , 2015, 4, 177-181.	4.8	25
97	Microphase Separation of Mixed Binary Polymer Brushes at Different Temperatures. <i>Macromolecules</i> , 2009, 42, 7194-7202.	4.8	24
98	Monte Carlo simulations of charged dendrimer-linear polyelectrolyte complexes and explicit counterions. <i>Journal of Chemical Physics</i> , 2011, 134, 204902.	3.0	24
99	A new numerical approach to dense polymer brushes and surface instabilities. <i>Journal of Chemical Physics</i> , 2012, 136, 044903.	3.0	24
100	Electrokinetics as an alternative to neutron reflectivity for evaluation of segment density distribution in PEO brushes. <i>Soft Matter</i> , 2014, 10, 7804-7809.	2.7	24
101	The formation and structure of Olympic gels. <i>Journal of Chemical Physics</i> , 2015, 143, 243114.	3.0	24
102	Monte Carlo study of the microphase separation of cross-linked polymer blends. <i>Journal of Chemical Physics</i> , 2000, 113, 11355-11363.	3.0	23
103	Nanomaterial interactions with biomembranes: Bridging the gap between soft matter models and biological context. <i>Biointerphases</i> , 2018, 13, 028501.	1.6	23
104	Molecular Dynamics Simulations of Strain-Induced Phase Transition of Poly(ethylene oxide) in Water. <i>Journal of Physical Chemistry B</i> , 2018, 122, 392-397.	2.6	23
105	High Temperature Quadruple-Detector Size Exclusion Chromatography for Topological Characterization of Polyethylene. <i>Analytical Chemistry</i> , 2018, 90, 6178-6186.	6.5	23
106	Adsorption of multiblock copolymers at interfaces between selective solvents: Single-chain properties. <i>Physical Review E</i> , 1996, 53, 905-920.	2.1	22
107	The structure of brushes made of dendrimers: Recent advances. <i>Polymer</i> , 2016, 98, 437-447.	3.8	22
108	Model simulations on network formation and swelling as obtained from cross-linking co-polymerization reactions. <i>Polymer</i> , 2016, 82, 138-155.	3.8	22

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109	On the dynamics of moderately crosslinked networks. Journal of Chemical Physics, 1991, 95, 1316-1317.	3.0	21
110	Copolymers at Striped Surfaces: Coupling Effects. Europhysics Letters, 1995, 29, 297-302.	2.0	21
111	GPU implementations of the bond fluctuation model. Journal of Computational Physics, 2012, 231, 2811-2824.	3.8	21
112	Conformational and electronic properties of small benzothiadiazole-cored oligomers with aryl flanking units: Thiophene versus Furan. Computational Materials Science, 2017, 126, 287-298.	3.0	21
113	Chemotaxis of Cargo-Carrying Self-Propelled Particles. Physical Review Letters, 2021, 126, 208102.	7.8	21
114	Copolymers at Interfaces: Scaling and Monte Carlo Studies. Journal De Physique II, 1996, 6, 1061-1066.	0.9	21
115	On the Adsorption Threshold of Multiblock Copolymers. Macromolecules, 1994, 27, 6991-6992.	4.8	20
116	Polymer chains tethered to impenetrable interfaces: Broadening of relaxation spectra. Journal of Chemical Physics, 1997, 106, 1248-1256.	3.0	20
117	Light Absorption in Organic Thin Films: The Importance of Oriented Molecules. Journal of Physical Chemistry C, 2013, 117, 17285-17293.	3.1	20
118	Multicore Unimolecular Structure Formation in Single Dendritic Linear Copolymers under Selective Solvent Conditions. Macromolecules, 2016, 49, 9215-9227.	4.8	20
119	Gluconic and Regulatory Solvents: A Paradigm for Tunable Phase Segregation in Polymers. Macromolecules, 2018, 51, 3066-3074.	4.8	20
120	Binary and Bidisperse Polymer Brushes: Coexisting Surface States. ACS Applied Materials & Interfaces, 2015, 7, 12496-12504.	8.0	19
121	Pseudochemotaxis in inhomogeneous active Brownian systems. Physical Review E, 2018, 97, 042612.	2.1	19
122	Linear response approach to active Brownian particles in time-varying activity fields. Journal of Chemical Physics, 2018, 148, 194116.	3.0	19
123	Nanopores as Switchable Gates for Nanoparticles: A Molecular Dynamics Study. Macromolecules, 2018, 51, 6238-6247.	4.8	19
124	Polymers with Quenched Short-Range Random Self-Interactions. Europhysics Letters, 1992, 19, 273-277.	2.0	18
125	Conformational switching of modified guest chains in polymer brushes. Journal of Chemical Physics, 2013, 139, 044910.	3.0	18
126	Single polymer chains in poor solvent: Using the bond fluctuation method with explicit solvent. Journal of Chemical Physics, 2013, 138, 094902.	3.0	18

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127	Cononsolvency Transition of Polymer Brushes: A Combined Experimental and Theoretical Study. Materials, 2018, 11, 991.	2.9	18
128	Polymer Brushes and Gels in Competing Solvents: The Role of Different Interactions and Quantitative Predictions for Poly(<i>N</i> -isopropylacrylamide) in Alcohol–Water Mixtures. Macromolecules, 2020, 53, 2323-2335.	4.8	18
129	Kinetics of network formation by end-linking: A monte carlo study. Macromolecular Symposia, 1994, 81, 153-160.	0.7	17
130	Morphogenesis and Nonequilibrium Pattern Formation in two-dimensional Polymer Crystallization. Phase Transitions, 2004, 77, 703-745.	1.3	17
131	The Formation of Ordered Polymer Structures at Interfaces: A Few Intriguing Aspects. Advances in Polymer Science, 2005, , 1-36.	0.8	16
132	Swelling Equilibrium of a Binary Polymer Gel. Macromolecules, 2011, 44, 981-986.	4.8	16
133	Gelation threshold of cross-linked polymer brushes. Physical Review E, 2011, 83, 021803.	2.1	16
134	A theoretical study of dispersion-to-aggregation of nanoparticles in adsorbing polymers using molecular dynamics simulations. Nanoscale, 2016, 8, 6964-6968.	5.6	16
135	Mechanofluorescent Polymer Brush Surfaces that Spatially Resolve Surface Solvation. ACS Nano, 2022, 16, 3383-3393.	14.6	16
136	Monte Carlo simulations of random copolymers at a selective interface. Physical Review E, 1996, 53, 5509-5512.	2.1	15
137	Polymers in periodic and aperiodic potentials: Localization effects. Journal of Chemical Physics, 1996, 105, 6008-6017.	3.0	15
138	Concentration and saturation effects of tethered polymer chains on adsorbing surfaces. Journal of Chemical Physics, 2006, 125, 214702.	3.0	15
139	Influence of weak reversible cross-linkers on entangled polymer melt dynamics. Journal of Chemical Physics, 2018, 148, 244901.	3.0	15
140	Adsorption of polymers at interfaces and extended defects. Physical Review E, 1996, 54, 3899-3905.	2.1	14
141	Nonmonotonic Extension of Polymers in Aperiodic Potentials. Physical Review Letters, 1997, 79, 439-442.	7.8	14
142	The role of the amorphous fraction for the equilibrium shape of polymer single crystals. European Physical Journal E, 2006, 19, 413-422.	1.6	14
143	Polymer brushes in explicit poor solvents studied using a new variant of the bond fluctuation model. Journal of Chemical Physics, 2014, 141, 104908.	3.0	14
144	C60-dyad aggregates: Self-organized structures in aqueous solutions. Journal of Chemical Physics, 2014, 141, 144303.	3.0	14

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145	Tendomers – force sensitive bis-rotaxanes with jump-like deformation behavior. <i>Soft Matter</i> , 2019, 15, 3671-3679.	2.7	14
146	Nondiffusive fluxes in a Brownian system with Lorentz force. <i>Physical Review E</i> , 2020, 101, 012120.	2.1	14
147	Regulating the Translocation of DNA through Poly(<i>N</i> -isopropylacrylamide)-Decorated Switchable Nanopores by Cononsolvency Effect. <i>Macromolecules</i> , 2021, 54, 4432-4442.	4.8	14
148	Two-Way Shape Memory Polymers: Evolution of Stress vs Evolution of Elongation. <i>Macromolecules</i> , 2021, 54, 5838-5847.	4.8	14
149	Scaling model for the anomalous swelling of polymer networks in a polymer solvent. <i>Europhysics Letters</i> , 2002, 57, 32-38.	2.0	13
150	Dynamical scaling of single chains on adsorbing substrates: Diffusion processes. <i>Journal of Chemical Physics</i> , 2005, 122, 134903.	3.0	13
151	Order and Phase Behavior of a Cylinder Forming Diblock Copolymers and Nano-Particles Mixture in Confinement: A Molecular Dynamics Study. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 329-339.	1.4	13
152	Fluctuation driven height reduction of crosslinked polymer brushes: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2013, 139, 164903.	3.0	13
153	Adsorption of branched and dendritic polymers onto flat surfaces: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2013, 139, 244903.	3.0	13
154	Length-dependent segregation in crystallization of <i>n</i> -alkanes: MD simulations. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 206-212.	3.1	13
155	Design of binary polymer brushes with tuneable functionality. <i>Soft Matter</i> , 2018, 14, 7237-7245.	2.7	13
156	Polymer-Induced Inverse-Temperature Crystallization of Nanoparticles on a Substrate. <i>ACS Nano</i> , 2013, 7, 9920-9926.	14.6	12
157	Dendrimer solutions: a Monte Carlo study. <i>Soft Matter</i> , 2016, 12, 9007-9013.	2.7	12
158	Stationary state in Brownian systems with Lorentz force. <i>Physical Review Research</i> , 2020, 2, .	3.6	12
159	Degenerate ground states of simple slip-link systems. <i>Journal of Chemical Physics</i> , 1992, 97, 5777-5781.	3.0	11
160	Random copolymers at a selective interface: Saturation effects. <i>Journal of Chemical Physics</i> , 2007, 127, 174901.	3.0	11
161	Influence of chain architecture on phase behaviour of styrene-(styrene/butadiene)-styrene triblock copolymers and their binary blends. <i>European Polymer Journal</i> , 2009, 45, 537-549.	5.4	11
162	Single chain dynamics in polymer networks: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2009, 130, 204902.	3.0	11

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163	Memory effects in polymer brushes showing co-nonsolvency effects. <i>Advances in Colloid and Interface Science</i> , 2021, 294, 102442.	14.7	11
164	Correlations in multithermostat Brownian systems with Lorentz force. <i>New Journal of Physics</i> , 2020, 22, 093057.	2.9	11
165	Olympic Gels: Concatenation and Swelling. <i>Macromolecular Symposia</i> , 2015, 358, 140-147.	0.7	10
166	Formation and stabilization of pores in bilayer membranes by peptide-like amphiphilic polymers. <i>Soft Matter</i> , 2018, 14, 2526-2534.	2.7	10
167	Pseudo-chemotaxis of active Brownian particles competing for food. <i>PLoS ONE</i> , 2020, 15, e0230873.	2.5	10
168	Theoretical Aspects of the Equilibrium State of Chain Crystals. , 2007, , 19-45.		10
169	Mechanism of Behavior of Two-Way Shape Memory Polymer under Constant Strain Conditions. <i>Macromolecules</i> , 2022, 55, 1680-1689.	4.8	10
170	Structural properties and swelling behavior of randomly crosslinked polymer networks: A monte carlo study. <i>Macromolecular Symposia</i> , 1994, 81, 139-152.	0.7	9
171	Polymer crystallization on pre-patterned substrates. <i>Journal of Chemical Physics</i> , 2003, 118, 784-791.	3.0	9
172	Surface instabilities of minority chains in dense polymer brushes: A comparison of density functional theory and quasi-off-lattice self-consistent field theory. <i>Journal of Chemical Physics</i> , 2012, 137, 064907.	3.0	9
173	Simulation of Complexes between a Charged Dendrimer and a Linear Polyelectrolyte with Finite Rigidity. <i>Macromolecular Theory and Simulations</i> , 2012, 21, 448-460.	1.4	9
174	Effective pair potentials between nanoparticles induced by single monomers and polymer chains. <i>Soft Matter</i> , 2013, 9, 5916.	2.7	9
175	Order and Phase Behavior of Thin Film of Diblock Copolymer-Selective Nanoparticle Mixtures: A Molecular Dynamics Simulation Study. <i>Macromolecules</i> , 2014, 47, 830-839.	4.8	9
176	Thermal Tunneling of Homopolymers through Amphiphilic Membranes. <i>ACS Macro Letters</i> , 2017, 6, 247-251.	4.8	9
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