

J-U Sommer

List of Publications by Year in descending order

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255
papers

7,528
citations

53939

47
h-index

97045

71
g-index

260
all docs

260
docs citations

260
times ranked

5817
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallization of Adsorbed Polymer Monolayers. <i>Physical Review Letters</i> , 1998, 80, 3771-3774.	2.9	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.	6.6	192
3	Direct Visualization of Random Crystallization and Melting in Arrays of Nanometer-Size Polymer Crystals. <i>Physical Review Letters</i> , 2001, 87, 226101.	2.9	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.	6.6	185
5	Cross-Link Density Estimation of PDMS Networks with Precise Consideration of Networks Defects. <i>Macromolecules</i> , 2012, 45, 899-912.	2.2	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.	1.2	168
7	Polymer crystallization in quasi-two dimensions. I. Experimental results. <i>Journal of Chemical Physics</i> , 2000, 112, 4376-4383.	1.2	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.	2.2	161
9	Frozen Topology: Entanglements Control Nucleation and Crystallization in Polymers. <i>Physical Review Letters</i> , 2014, 112, 195702.	2.9	124
10	Polymer crystallization in quasi-two dimensions. II. Kinetic models and computer simulations. <i>Journal of Chemical Physics</i> , 2000, 112, 4384-4393.	1.2	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.	2.9	111
12	Polymer Brushes for Surface Tuning. <i>Macromolecular Rapid Communications</i> , 2009, 30, 732-740.	2.0	107
13	Growth Pathway and Precursor States in Single Lamellar Crystallization: MD Simulations. <i>Macromolecules</i> , 2011, 44, 1523-1529.	2.2	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.	1.2	93
15	Nanoparticle-Induced Permeability of Lipid Membranes. <i>ACS Nano</i> , 2012, 6, 10555-10561.	7.3	90
16	Statics and dynamics of dense copolymer melts: A Monte Carlo simulation study. <i>Journal of Chemical Physics</i> , 1997, 106, 6709-6721.	1.2	87
17	Thermodynamics of Formation, Reorganization, and Melting of Confined Nanometer-Sized Polymer Crystals. <i>Macromolecules</i> , 2003, 36, 1257-1260.	2.2	83
18	Liquidlike Morphological Transformations in Monolamellar Polymer Crystals. <i>Physical Review Letters</i> , 2001, 86, 5918-5921.	2.9	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.	2.3	78
20	Properties of Dendrimers with Flexible Spacer-Chains: A Monte Carlo Study. Macromolecules, 2009, 42, 4878-4886.	2.2	76
21	Molecular dynamics simulations of polymer crystallization under confinement: Entanglement effect. Polymer, 2017, 109, 71-84.	1.8	75
22	Reversible Thermosensitive Biodegradable Polymeric Actuators Based on Confined Crystallization. Nano Letters, 2015, 15, 1786-1790.	4.5	72
23	Nanoscale Brushes: How to Build a Smart Surface Coating. Physical Review Letters, 2009, 102, 115702.	2.9	70
24	Coexistence of Melting and Growth during Heating of a Semicrystalline Polymer. Physical Review Letters, 2009, 102, 147801.	2.9	64
25	Disentanglement of Linear Polymer Chains Toward Unentangled Crystals. ACS Macro Letters, 2013, 2, 31-34.	2.3	62
26	Using Mean Field Theory to Guide Biofunctional Materials Design. Advanced Functional Materials, 2012, 22, 1391-1398.	7.8	61
27	Swelling Heterogeneities in End-Linked Model Networks: A Combined Proton Multiple-Quantum NMR and Computer Simulation Study. Macromolecules, 2004, 37, 8556-8568.	2.2	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.	2.2	60
29	Block copolymer films between neutral walls: A Monte Carlo study. Journal of Chemical Physics, 1999, 111, 3728-3732.	1.2	59
30	Static and Dynamic Properties of Polymer Brushes at Moderate and High Grafting Densities: A Molecular Dynamics Study. Macromolecules, 2007, 40, 6721-6730.	2.2	59
31	Fractal properties and swelling behavior of polymer networks. Journal of Chemical Physics, 1994, 100, 9181-9191.	1.2	57
32	Topological Structure and Nonaffine Swelling of Bimodal Polymer Networks. Macromolecules, 2002, 35, 9832-9843.	2.2	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.	2.2	56
35	Coding coarse grained polymer model for LAMMPS and its application to polymer crystallization. Computer Physics Communications, 2009, 180, 1382-1391.	3.0	55
36	Computer simulations of asymmetric block copolymers. Journal of Chemical Physics, 1997, 107, 7559-7570.	1.2	52

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37	Analysis of Entanglement Length and Segmental Order Parameter in Polymer Networks. <i>Physical Review Letters</i> , 2010, 104, 177801.	2.9	52
38	Morphologies of diblock copolymer thin films before and after crystallization. <i>European Physical Journal E</i> , 2000, 2, 319.	0.7	51
39	Grafted Polymer Chains Interacting with Substrates: Computer Simulations and Scaling. <i>Macromolecular Theory and Simulations</i> , 2008, 17, 429-453.	0.6	51
40	Molecular dynamics simulations of semicrystalline polymers: Crystallization, melting, and reorganization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2222-2232.	2.4	51
41	Structure and swelling of polymer networks: insights from NMR. <i>Soft Matter</i> , 2013, 9, 6587.	1.2	51
42	Monte Carlo simulations of a single polymer chain under an external force in two and three dimensions. <i>Physical Review E</i> , 1994, 49, 5472-5476.	0.8	49
43	Entropy and enthalpy at play. <i>Nature Materials</i> , 2007, 6, 260-261.	13.3	49
44	Simulations of Terminally Charged Dendrimers with Flexible Spacer Chains and Explicit Counterions. <i>Macromolecules</i> , 2010, 43, 4418-4427.	2.2	49
45	Starlike Polymer Brushes. <i>Macromolecules</i> , 2011, 44, 7043-7049.	2.2	49
46	Adsorption-Attraction Model for Co-Nonsolvency in Polymer Brushes. <i>Macromolecules</i> , 2017, 50, 2219-2228.	2.2	49
47	Copolymers at Selective Interfaces. <i>Europhysics Letters</i> , 1995, 32, 407-412.	0.7	48
48	Reversibly Switchable Polymer Brushes with Hydrophobic/Hydrophilic Behavior: A Langevin Dynamics Study. <i>Macromolecules</i> , 2009, 42, 445-451.	2.2	48
49	Polyelectrolyte Brushes: Debye Approximation and Mean-Field Theory. <i>Macromolecules</i> , 2011, 44, 3109-3116.	2.2	48
50	Dynamical properties of randomly cross-linked polymer melts: A Monte Carlo study. I. Diffusion dynamics. <i>Journal of Chemical Physics</i> , 1993, 98, 7515-7520.	1.2	47
51	NMR Reveals Non-Distributed and Uniform Character of Network Chain Dynamics. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1455-1465.	2.0	47
52	Inclusion Free Energy of Nanoparticles in Polymer Brushes. <i>Macromolecules</i> , 2012, 45, 8494-8501.	2.2	46
53	Reversible Shape-Memory Effect in Cross-Linked Linear Poly(ϵ -caprolactone) under Stress and Stress-Free Conditions. <i>Macromolecules</i> , 2017, 50, 3841-3854.	2.2	46
54	On the Structure of Star-Polymer Networks. <i>Macromolecules</i> , 2011, 44, 9464-9472.	2.2	45

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55	Effect of Topology on the Conformations of Ring Polymers. <i>Macromolecules</i> , 2012, 45, 7642-7648.	2.2	45
56	Homo-polymers with balanced hydrophobicity translocate through lipid bilayers and enhance local solvent permeability. <i>Soft Matter</i> , 2012, 8, 11714.	1.2	44
57	Biohybrid Networks of Selectively Desulfated Glycosaminoglycans for Tunable Growth Factor Delivery. <i>Biomacromolecules</i> , 2014, 15, 4439-4446.	2.6	43
58	Nanoparticles of Various Degrees of Hydrophobicity Interacting with Lipid Membranes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4069-4076.	2.1	41
59	Molecular Dynamics Simulation of Crystallization Cyclic Polymer Melts As Compared to Their Linear Counterparts. <i>Macromolecules</i> , 2017, 50, 9796-9806.	2.2	41
60	Translocation and Induced Permeability of Random Amphiphilic Copolymers Interacting with Lipid Bilayer Membranes. <i>Biomacromolecules</i> , 2015, 16, 125-135.	2.6	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.	2.2	39
62	Localization Transition of Random Copolymers at Interfaces. <i>Physical Review Letters</i> , 1998, 81, 4412-4415.	2.9	37
63	Segmental order in end-linked polymer networks: A Monte Carlo study. <i>European Physical Journal E</i> , 2005, 18, 167-182.	0.7	37
64	Surface Instabilities of Monodisperse and Densely Grafted Polymer Brushes. <i>Macromolecules</i> , 2008, 41, 5070-5072.	2.2	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.	7.2	36
66	Swelling of Olympic Gels. <i>Physical Review Letters</i> , 2014, 112, 238001.	2.9	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.	2.2	35
68	Monte Carlo studies of polymer network formation. <i>Journal of Chemical Physics</i> , 1992, 96, 7102-7107.	1.2	34
69	Morphogenesis of lamellar polymer crystals. <i>Europhysics Letters</i> , 2001, 56, 755-761.	0.7	34
70	Effect of excluded volume on segmental orientation correlations in polymer chains. <i>Physical Review E</i> , 2008, 78, 051803.	0.8	34
71	Polyelectrolyte Brushes: MD Simulation and SCF Theory. <i>Macromolecules</i> , 2010, 43, 7845-7851.	2.2	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.	2.2	34

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73	Simulations of Neutral and Charged Dendrimers in Solvents of Varying Quality. <i>Macromolecules</i> , 2013, 46, 3107-3117.	2.2	33
74	Water around fullerene shape amphiphiles: A molecular dynamics simulation study of hydrophobic hydration. <i>Journal of Chemical Physics</i> , 2015, 142, 224308.	1.2	33
75	Two universality classes for random hyperbranched polymers. <i>Soft Matter</i> , 2014, 10, 4935.	1.2	32
76	Swelling Behavior of Single-Chain Polymer Nanoparticles: Theory and Simulation. <i>Macromolecules</i> , 2017, 50, 7410-7418.	2.2	32
77	Critical adsorption controls translocation of polymer chains through lipid bilayers and permeation of solvent. <i>Europhysics Letters</i> , 2012, 98, 18003.	0.7	31
78	Semianalytical Mean-Field Model for Starlike Polymer Brushes in Good Solvent. <i>Macromolecules</i> , 2013, 46, 1248-1252.	2.2	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.	2.9	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.	6.6	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.	1.2	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.	2.2	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.	1.2	29
84	Polymer-induced entropic depletion potential. <i>Physical Review E</i> , 2011, 84, 041802.	0.8	29
85	Polyelectrolyte brushes in external fields: molecular dynamics simulations and mean-field theory. <i>Soft Matter</i> , 2015, 11, 5688-5696.	1.2	29
86	Reversibly Actuating Solid Janus Polymeric Fibers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4873-4881.	4.0	29
87	Lorentz forces induce inhomogeneity and flux in active systems. <i>Physical Review Research</i> , 2020, 2, .	1.3	29
88	Copolymers in asymmetric interface potentials: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 1996, 105, 8376-8384.	1.2	28
89	Crystallization in ultra-thin polymer films. <i>Thermochimica Acta</i> , 2005, 432, 135-147.	1.2	28
90	Coarse grained simulations of neutral and charged dendrimers. <i>Polymer Science - Series C</i> , 2013, 55, 125-153.	0.8	28

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91	Structure of Dendrimer Brushes: Mean-Field Theory and MD Simulations. <i>Macromolecules</i> , 2014, 47, 3645-3653.	2.2	28
92	Polymer-decorated tethered membranes under good- and poor-solvent conditions. <i>European Physical Journal E</i> , 2010, 31, 383-392.	0.7	27
93	Thermodynamics of Swollen Networks As Reflected in Segmental Orientation Correlations. <i>Macromolecules</i> , 2012, 45, 5513-5523.	2.2	27
94	Co-Nonsolvency Response of a Polymer Brush: A Molecular Dynamics Study. <i>Macromolecules</i> , 2019, 52, 4120-4130.	2.2	26
95	Irreversible adsorption of tethered chains at substrates: Monte Carlo study. <i>Journal of Chemical Physics</i> , 2006, 124, 094701.	1.2	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.	2.3	25
97	Microphase Separation of Mixed Binary Polymer Brushes at Different Temperatures. <i>Macromolecules</i> , 2009, 42, 7194-7202.	2.2	24
98	Monte Carlo simulations of charged dendrimer-linear polyelectrolyte complexes and explicit counterions. <i>Journal of Chemical Physics</i> , 2011, 134, 204902.	1.2	24
99	A new numerical approach to dense polymer brushes and surface instabilities. <i>Journal of Chemical Physics</i> , 2012, 136, 044903.	1.2	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.	1.2	24
101	The formation and structure of Olympic gels. <i>Journal of Chemical Physics</i> , 2015, 143, 243114.	1.2	24
102	Monte Carlo study of the microphase separation of cross-linked polymer blends. <i>Journal of Chemical Physics</i> , 2000, 113, 11355-11363.	1.2	23
103	Nanomaterial interactions with biomembranes: Bridging the gap between soft matter models and biological context. <i>Biointerphases</i> , 2018, 13, 028501.	0.6	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.	1.2	23
105	High Temperature Quadruple-Detector Size Exclusion Chromatography for Topological Characterization of Polyethylene. <i>Analytical Chemistry</i> , 2018, 90, 6178-6186.	3.2	23
106	Adsorption of multiblock copolymers at interfaces between selective solvents: Single-chain properties. <i>Physical Review E</i> , 1996, 53, 905-920.	0.8	22
107	The structure of brushes made of dendrimers: Recent advances. <i>Polymer</i> , 2016, 98, 437-447.	1.8	22
108	Model simulations on network formation and swelling as obtained from cross-linking co-polymerization reactions. <i>Polymer</i> , 2016, 82, 138-155.	1.8	22

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109	On the dynamics of moderately crosslinked networks. <i>Journal of Chemical Physics</i> , 1991, 95, 1316-1317.	1.2	21
110	Copolymers at Striped Surfaces: Coupling Effects. <i>Europhysics Letters</i> , 1995, 29, 297-302.	0.7	21
111	GPU implementations of the bond fluctuation model. <i>Journal of Computational Physics</i> , 2012, 231, 2811-2824.	1.9	21
112	Conformational and electronic properties of small benzothiadiazole-cored oligomers with aryl flanking units: Thiophene versus Furan. <i>Computational Materials Science</i> , 2017, 126, 287-298.	1.4	21
113	Chemotaxis of Cargo-Carrying Self-Propelled Particles. <i>Physical Review Letters</i> , 2021, 126, 208102.	2.9	21
114	Copolymers at Interfaces: Scaling and Monte Carlo Studies. <i>Journal De Physique II</i> , 1996, 6, 1061-1066.	0.9	21
115	On the Adsorption Threshold of Multiblock Copolymers. <i>Macromolecules</i> , 1994, 27, 6991-6992.	2.2	20
116	Polymer chains tethered to impenetrable interfaces: Broadening of relaxation spectra. <i>Journal of Chemical Physics</i> , 1997, 106, 1248-1256.	1.2	20
117	Light Absorption in Organic Thin Films: The Importance of Oriented Molecules. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17285-17293.	1.5	20
118	Multicore Unimolecular Structure Formation in Single Dendritic Linear Copolymers under Selective Solvent Conditions. <i>Macromolecules</i> , 2016, 49, 9215-9227.	2.2	20
119	Gluconic and Regulatory Solvents: A Paradigm for Tunable Phase Segregation in Polymers. <i>Macromolecules</i> , 2018, 51, 3066-3074.	2.2	20
120	Binary and Bidisperse Polymer Brushes: Coexisting Surface States. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12496-12504.	4.0	19
121	Pseudochemotaxis in inhomogeneous active Brownian systems. <i>Physical Review E</i> , 2018, 97, 042612.	0.8	19
122	Linear response approach to active Brownian particles in time-varying activity fields. <i>Journal of Chemical Physics</i> , 2018, 148, 194116.	1.2	19
123	Nanopores as Switchable Gates for Nanoparticles: A Molecular Dynamics Study. <i>Macromolecules</i> , 2018, 51, 6238-6247.	2.2	19
124	Polymers with Quenched Short-Range Random Self-Interactions. <i>Europhysics Letters</i> , 1992, 19, 273-277.	0.7	18
125	Conformational switching of modified guest chains in polymer brushes. <i>Journal of Chemical Physics</i> , 2013, 139, 044910.	1.2	18
126	Single polymer chains in poor solvent: Using the bond fluctuation method with explicit solvent. <i>Journal of Chemical Physics</i> , 2013, 138, 094902.	1.2	18

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127	Cononsolvency Transition of Polymer Brushes: A Combined Experimental and Theoretical Study. <i>Materials</i> , 2018, 11, 991.	1.3	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. <i>Macromolecules</i> , 2020, 53, 2323-2335.	2.2	18
129	Kinetics of network formation by end-linking: A monte carlo study. <i>Macromolecular Symposia</i> , 1994, 81, 153-160.	0.4	17
130	Morphogenesis and Nonequilibrium Pattern Formation in two-dimensional Polymer Crystallization. <i>Phase Transitions</i> , 2004, 77, 703-745.	0.6	17
131	The Formation of Ordered Polymer Structures at Interfaces: A Few Intriguing Aspects. <i>Advances in Polymer Science</i> , 2005, , 1-36.	0.4	16
132	Swelling Equilibrium of a Binary Polymer Gel. <i>Macromolecules</i> , 2011, 44, 981-986.	2.2	16
133	Gelation threshold of cross-linked polymer brushes. <i>Physical Review E</i> , 2011, 83, 021803.	0.8	16
134	A theoretical study of dispersion-to-aggregation of nanoparticles in adsorbing polymers using molecular dynamics simulations. <i>Nanoscale</i> , 2016, 8, 6964-6968.	2.8	16
135	Mechanofluorescent Polymer Brush Surfaces that Spatially Resolve Surface Solvation. <i>ACS Nano</i> , 2022, 16, 3383-3393.	7.3	16
136	Monte Carlo simulations of random copolymers at a selective interface. <i>Physical Review E</i> , 1996, 53, 5509-5512.	0.8	15
137	Polymers in periodic and aperiodic potentials: Localization effects. <i>Journal of Chemical Physics</i> , 1996, 105, 6008-6017.	1.2	15
138	Concentration and saturation effects of tethered polymer chains on adsorbing surfaces. <i>Journal of Chemical Physics</i> , 2006, 125, 214702.	1.2	15
139	Influence of weak reversible cross-linkers on entangled polymer melt dynamics. <i>Journal of Chemical Physics</i> , 2018, 148, 244901.	1.2	15
140	Adsorption of polymers at interfaces and extended defects. <i>Physical Review E</i> , 1996, 54, 3899-3905.	0.8	14
141	Nonmonotonic Extension of Polymers in Aperiodic Potentials. <i>Physical Review Letters</i> , 1997, 79, 439-442.	2.9	14
142	The role of the amorphous fraction for the equilibrium shape of polymer single crystals. <i>European Physical Journal E</i> , 2006, 19, 413-422.	0.7	14
143	Polymer brushes in explicit poor solvents studied using a new variant of the bond fluctuation model. <i>Journal of Chemical Physics</i> , 2014, 141, 104908.	1.2	14
144	C60-dyad aggregates: Self-organized structures in aqueous solutions. <i>Journal of Chemical Physics</i> , 2014, 141, 144303.	1.2	14

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145	Tendomers – force sensitive bis-rotaxanes with jump-like deformation behavior. <i>Soft Matter</i> , 2019, 15, 3671-3679.	1.2	14
146	Nondiffusive fluxes in a Brownian system with Lorentz force. <i>Physical Review E</i> , 2020, 101, 012120.	0.8	14
147	Regulating the Translocation of DNA through Poly(<i>N</i> -isopropylacrylamide)-Decorated Switchable Nanopores by Conosolvency Effect. <i>Macromolecules</i> , 2021, 54, 4432-4442.	2.2	14
148	Two-Way Shape Memory Polymers: Evolution of Stress vs Evolution of Elongation. <i>Macromolecules</i> , 2021, 54, 5838-5847.	2.2	14
149	Scaling model for the anomalous swelling of polymer networks in a polymer solvent. <i>Europhysics Letters</i> , 2002, 57, 32-38.	0.7	13
150	Dynamical scaling of single chains on adsorbing substrates: Diffusion processes. <i>Journal of Chemical Physics</i> , 2005, 122, 134903.	1.2	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.	0.6	13
152	Fluctuation driven height reduction of crosslinked polymer brushes: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2013, 139, 164903.	1.2	13
153	Adsorption of branched and dendritic polymers onto flat surfaces: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2013, 139, 244903.	1.2	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.	1.5	13
155	Design of binary polymer brushes with tuneable functionality. <i>Soft Matter</i> , 2018, 14, 7237-7245.	1.2	13
156	Polymer-Induced Inverse-Temperature Crystallization of Nanoparticles on a Substrate. <i>ACS Nano</i> , 2013, 7, 9920-9926.	7.3	12
157	Dendrimer solutions: a Monte Carlo study. <i>Soft Matter</i> , 2016, 12, 9007-9013.	1.2	12
158	Stationary state in Brownian systems with Lorentz force. <i>Physical Review Research</i> , 2020, 2, .	1.3	12
159	Degenerate ground states of simple slip-link systems. <i>Journal of Chemical Physics</i> , 1992, 97, 5777-5781.	1.2	11
160	Random copolymers at a selective interface: Saturation effects. <i>Journal of Chemical Physics</i> , 2007, 127, 174901.	1.2	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.	2.6	11
162	Single chain dynamics in polymer networks: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2009, 130, 204902.	1.2	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.	7.0	11
164	Correlations in multithermostat Brownian systems with Lorentz force. <i>New Journal of Physics</i> , 2020, 22, 093057.	1.2	11
165	Olympic Gels: Concatenation and Swelling. <i>Macromolecular Symposia</i> , 2015, 358, 140-147.	0.4	10
166	Formation and stabilization of pores in bilayer membranes by peptide-like amphiphilic polymers. <i>Soft Matter</i> , 2018, 14, 2526-2534.	1.2	10
167	Pseudo-chemotaxis of active Brownian particles competing for food. <i>PLoS ONE</i> , 2020, 15, e0230873.	1.1	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.	2.2	10
170	Structural properties and swelling behavior of randomly crosslinked polymer networks: A monte carlo study. <i>Macromolecular Symposia</i> , 1994, 81, 139-152.	0.4	9
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