

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

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260
all docs

260
docs citations

260
times ranked

5817
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanofluorescent Polymer Brush Surfaces that Spatially Resolve Surface Solvation. ACS Nano, 2022, 16, 3383-3393.	7.3	16
2	Localization of Polymer Chains at Two Penetrable Interfaces in a Constant Magnetic Field. Ukrainian Journal of Physics, 2022, 56, 21.	0.1	0
3	Mechanism of Behavior of Two-Way Shape Memory Polymer under Constant Strain Conditions. Macromolecules, 2022, 55, 1680-1689.	2.2	10
4	Polymer-Assisted Condensation: A Mechanism for Hetero-Chromatin Formation and Epigenetic Memory. Macromolecules, 2022, 55, 4841-4851.	2.2	9
5	Searching for Aquamelt Behavior among Silklike Biomimetics during Fibrillation under Flow. Journal of Physical Chemistry B, 2021, 125, 3238-3250.	1.2	1
6	Regulating the Translocation of DNA through Poly(<i>N</i> -isopropylacrylamide)-Decorated Switchable Nanopores by Cononsolvency Effect. Macromolecules, 2021, 54, 4432-4442.	2.2	14
7	Chemotaxis of Cargo-Carrying Self-Propelled Particles. Physical Review Letters, 2021, 126, 208102.	2.9	21
8	Swelling of Tendomer Gels. Macromolecules, 2021, 54, 4601-4614.	2.2	4
9	Control of the aqueous solubility of cellulose by hydroxyl group substitution and its effect on processing. Polymer, 2021, 223, 123681.	1.8	9
10	Crystallization of Polymers under the Influence of an External Force Field. Polymers, 2021, 13, 2078.	2.0	7
11	Multimolecular Structure Formation with Linear Dendritic Copolymers. Macromolecules, 2021, 54, 6937-6946.	2.2	1
12	Two-Way Shape Memory Polymers: Evolution of Stress vs Evolution of Elongation. Macromolecules, 2021, 54, 5838-5847.	2.2	14
13	FRET-Integrated Polymer Brushes for Spatially Resolved Sensing of Changes in Polymer Conformation. Angewandte Chemie - International Edition, 2021, 60, 16600-16606.	7.2	36
14	FRET-Integrated Polymer Brushes for Spatially Resolved Sensing of Changes in Polymer Conformation. Angewandte Chemie, 2021, 133, 16736-16742.	1.6	7
15	Memory effects in polymer brushes showing co-nonsolvency effects. Advances in Colloid and Interface Science, 2021, 294, 102442.	7.0	11
16	Conformational Properties of End-Grafted Bottlebrush Polymers. Macromolecules, 2021, 54, 161-169.	2.2	6
17	End-Adsorbing Chains in Polymer Brushes: Pathway to Highly Metastable Switchable Surfaces. Macromolecules, 2020, 53, 7356-7368.	2.2	7
18	Mean-Field Model of the Collapse Transition of Brushes inside Cylindrical Nanopores. Macromolecules, 2020, 53, 6711-6719.	2.2	9

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19	Flow-Induced Formation of Thin PEO Fibers in Water and Their Stability After the Strain Release. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9224-9229.	1.2	5
20	Nanoparticle assembly under block copolymer confinement: The effect of nanoparticle size and confinement strength. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 441-451.	5.0	8
21	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
22	Nondiffusive fluxes in a Brownian system with Lorentz force. <i>Physical Review E</i> , 2020, 101, 012120.	0.8	14
23	Pseudo-chemotaxis of active Brownian particles competing for food. <i>PLoS ONE</i> , 2020, 15, e0230873.	1.1	10
24	Correlations in multithermostat Brownian systems with Lorentz force. <i>New Journal of Physics</i> , 2020, 22, 093057.	1.2	11
25	Lorentz forces induce inhomogeneity and flux in active systems. <i>Physical Review Research</i> , 2020, 2, .	1.3	29
26	Stationary state in Brownian systems with Lorentz force. <i>Physical Review Research</i> , 2020, 2, .	1.3	12
27	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
28	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
29	Co-Nonsolvency Response of a Polymer Brush: A Molecular Dynamics Study. <i>Macromolecules</i> , 2019, 52, 4120-4130.	2.2	26
30	Dendrimers in Solution of Linear Polymers: Crowding Effects. <i>Macromolecules</i> , 2019, 52, 2616-2626.	2.2	9
31	Coarse-Grained Model of Oxidized Membranes and Their Interactions with Nanoparticles of Various Degrees of Hydrophobicity. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6839-6848.	1.5	8
32	Tendomers—force sensitive bis-rotaxanes with jump-like deformation behavior. <i>Soft Matter</i> , 2019, 15, 3671-3679.	1.2	14
33	Universal Equation of State for Flexible Polymers Beyond the Semidilute Regime. <i>Physical Review Letters</i> , 2019, 122, 087801.	2.9	5
34	Shape-Adaptive Single-Chain Nanoparticles Interacting with Lipid Membranes. <i>Macromolecules</i> , 2019, 52, 9578-9584.	2.2	6
35	Copolymers of Diketopyrrolopyrrole and Benzothiadiazole: Design and Function from Simulations with Experimental Support. <i>Macromolecules</i> , 2019, 52, 904-914.	2.2	9
36	Formation and stabilization of pores in bilayer membranes by peptide-like amphiphilic polymers. <i>Soft Matter</i> , 2018, 14, 2526-2534.	1.2	10

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37	Pseudochemotaxis in inhomogeneous active Brownian systems. <i>Physical Review E</i> , 2018, 97, 042612.	0.8	19
38	Nanomaterial interactions with biomembranes: Bridging the gap between soft matter models and biological context. <i>Biointerphases</i> , 2018, 13, 028501.	0.6	23
39	Glue and Regulatory Solvents: A Paradigm for Tunable Phase Segregation in Polymers. <i>Macromolecules</i> , 2018, 51, 3066-3074.	2.2	20
40	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
41	High Temperature Quadruple-Detector Size Exclusion Chromatography for Topological Characterization of Polyethylene. <i>Analytical Chemistry</i> , 2018, 90, 6178-6186.	3.2	23
42	Discontinuous switching of position of two coexisting phases. <i>New Journal of Physics</i> , 2018, 20, 075009.	1.2	8
43	Testing the physics of knots with a Feringa nanoengine. <i>Physical Review E</i> , 2018, 98, .	0.8	5
44	A comparative analysis of symmetric diketopyrrolopyrrole-cored small conjugated molecules with aromatic flanks: From geometry to charge transport. <i>Journal of Computational Chemistry</i> , 2018, 39, 2526-2538.	1.5	7
45	Linear response approach to active Brownian particles in time-varying activity fields. <i>Journal of Chemical Physics</i> , 2018, 148, 194116.	1.2	19
46	Influence of weak reversible cross-linkers on entangled polymer melt dynamics. <i>Journal of Chemical Physics</i> , 2018, 148, 244901.	1.2	15
47	Conosolvency Transition of Polymer Brushes: A Combined Experimental and Theoretical Study. <i>Materials</i> , 2018, 11, 991.	1.3	18
48	Nanopores as Switchable Gates for Nanoparticles: A Molecular Dynamics Study. <i>Macromolecules</i> , 2018, 51, 6238-6247.	2.2	19
49	How do immobilised cell-adhesive Arg-Gly-Asp-containing peptides behave at the PAA brush surface?. <i>Molecular Simulation</i> , 2018, 44, 1325-1337.	0.9	2
50	Design of binary polymer brushes with tuneable functionality. <i>Soft Matter</i> , 2018, 14, 7237-7245.	1.2	13
51	Thermal Tunneling of Homopolymers through Amphiphilic Membranes. <i>ACS Macro Letters</i> , 2017, 6, 247-251.	2.3	9
52	Adsorption-Attraction Model for Co-Nonsolvency in Polymer Brushes. <i>Macromolecules</i> , 2017, 50, 2219-2228.	2.2	49
53	Reversible Shape-Memory Effect in Cross-Linked Linear Poly(μ -caprolactone) under Stress and Stress-Free Conditions. <i>Macromolecules</i> , 2017, 50, 3841-3854.	2.2	46
54	Directional transport of colloids inside a bath of self-propelling walkers. <i>Soft Matter</i> , 2017, 13, 3726-3733.	1.2	8

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55	Molecular dynamics simulations of polymer crystallization under confinement: Entanglement effect. <i>Polymer</i> , 2017, 109, 71-84.	1.8	75
56	Swelling Behavior of Single-Chain Polymer Nanoparticles: Theory and Simulation. <i>Macromolecules</i> , 2017, 50, 7410-7418.	2.2	32
57	Nanoparticles of Various Degrees of Hydrophobicity Interacting with Lipid Membranes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4069-4076.	2.1	41
58	Molecular Dynamics Simulation of Crystallization Cyclic Polymer Melts As Compared to Their Linear Counterparts. <i>Macromolecules</i> , 2017, 50, 9796-9806.	2.2	41
59	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
60	Reversibly Actuating Solid Janus Polymeric Fibers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4873-4881.	4.0	29
61	Copolymer Nanocomposite Thin Films Under Shear. <i>Macromolecular Symposia</i> , 2017, 376, 1600211.	0.4	0
62	Entanglements and Crystallization of Concentrated Polymer Solutions: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2016, 49, 9017-9025.	2.2	56
63	Mixed brush made of 4-arm stars and linear chains: MD simulations. <i>Journal of Chemical Physics</i> , 2016, 145, 234905.	1.2	5
64	Diblock-copolymer thin films under shear. <i>Journal of Chemical Physics</i> , 2016, 145, 164908.	1.2	8
65	The structure of brushes made of dendrimers: Recent advances. <i>Polymer</i> , 2016, 98, 437-447.	1.8	22
66	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
67	Multicore Unimolecular Structure Formation in Single Dendritic Linear Copolymers under Selective Solvent Conditions. <i>Macromolecules</i> , 2016, 49, 9215-9227.	2.2	20
68	Theoretical approaches to starlike polymer brushes in $\hat{\Gamma}$ -solvent. <i>Polymer</i> , 2016, 103, 57-63.	1.8	5
69	Dendrimer solutions: a Monte Carlo study. <i>Soft Matter</i> , 2016, 12, 9007-9013.	1.2	12
70	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
71	Role of Thermal History and Entanglement Related Thickness Selection in Polymer Crystallization. <i>ACS Macro Letters</i> , 2016, 5, 30-34.	2.3	78
72	Polymer Physics at Surfaces and Interfaces. <i>Lecture Notes in Physics</i> , 2016, , 279-311.	0.3	0

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73	A Highly Parallelizable Bond Fluctuation Model on the Body-Centered Cubic Lattice. Lecture Notes in Computer Science, 2016, , 301-311.	1.0	2
74	The formation and structure of Olympic gels. Journal of Chemical Physics, 2015, 143, 243114.	1.2	24
75	Olympic Gels: Concatenation and Swelling. Macromolecular Symposia, 2015, 358, 140-147.	0.4	10
76	Translocation and Induced Permeability of Random Amphiphilic Copolymers Interacting with Lipid Bilayer Membranes. Biomacromolecules, 2015, 16, 125-135.	2.6	40
77	Translocation of Molecules with Different Architectures through a Brush-Covered Microchannel. Macromolecules, 2015, 48, 3756-3766.	2.2	7
78	Water around fullerene shape amphiphiles: A molecular dynamics simulation study of hydrophobic hydration. Journal of Chemical Physics, 2015, 142, 224308.	1.2	33
79	Simulations of a Grafted Dendritic Polyelectrolyte in Electric Fields. Macromolecules, 2015, 48, 1179-1186.	2.2	7
80	Reversible Thermosensitive Biodegradable Polymeric Actuators Based on Confined Crystallization. Nano Letters, 2015, 15, 1786-1790.	4.5	72
81	Conformations of a Long Polymer in a Melt of Shorter Chains: Generalizations of the Flory Theorem. ACS Macro Letters, 2015, 4, 177-181.	2.3	25
82	Interactions of Amphiphilic Triblock Copolymers with Lipid Membranes: Modes of Interaction and Effect on Permeability Examined by Generic Monte Carlo Simulations. Macromolecules, 2015, 48, 4724-4732.	2.2	35
83	Binary and Bidisperse Polymer Brushes: Coexisting Surface States. ACS Applied Materials & Interfaces, 2015, 7, 12496-12504.	4.0	19
84	Counterion-mediated protein adsorption into polyelectrolyte brushes. European Physical Journal E, 2015, 38, 101.	0.7	4
85	Polyelectrolyte brushes in external fields: molecular dynamics simulations and mean-field theory. Soft Matter, 2015, 11, 5688-5696.	1.2	29
86	Consequences of a Single Double Bond within a Side Group on the Ordering of Supramolecular Polymers. Journal of Physical Chemistry C, 2015, 119, 22596-22603.	1.5	3
87	Length-dependent segregation in crystallization of n -alkanes: MD simulations. Journal of Non-Crystalline Solids, 2015, 407, 206-212.	1.5	13
88	Charge Inversion Effects in Electrophoresis of Polyelectrolytes in the Presence of Multivalent Counterions and Transversal Electric Fields. Polymers, 2014, 6, 2942-2960.	2.0	1
89	Shear-Induced Ordering in Thin Films of Diblock Copolymer Melts. ACS Macro Letters, 2014, 3, 1201-1204.	2.3	8
90	Polymer brushes in explicit poor solvents studied using a new variant of the bond fluctuation model. Journal of Chemical Physics, 2014, 141, 104908.	1.2	14

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91	C60-dyad aggregates: Self-organized structures in aqueous solutions. <i>Journal of Chemical Physics</i> , 2014, 141, 144303.	1.2	14
92	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
93	Innovative Molecular Design for a Volume Oriented Component Diagnostic: Modified Magnetic Nanoparticles on High Performance Yarns for Smart Textiles. <i>Advanced Engineering Materials</i> , 2014, 16, 1276-1283.	1.6	1
94	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.	2.2	9
95	Structure of Dendrimer Brushes: Mean-Field Theory and MD Simulations. <i>Macromolecules</i> , 2014, 47, 3645-3653.	2.2	28
96	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
97	Two universality classes for random hyperbranched polymers. <i>Soft Matter</i> , 2014, 10, 4935.	1.2	32
98	Biohybrid Networks of Selectively Desulfated Glycosaminoglycans for Tunable Growth Factor Delivery. <i>Biomacromolecules</i> , 2014, 15, 4439-4446.	2.6	43
99	Tunneling spectroscopy measurements on hydrogen-bonded supramolecular polymers. <i>Nanoscale</i> , 2014, 6, 8250-8256.	2.8	4
100	Evidence of random copolymer adsorption at fluctuating selective interfaces from Monte-Carlo simulation studies. <i>Soft Matter</i> , 2014, 10, 7247-7255.	1.2	8
101	Monte Carlo Simulation of Thin Film Polymer Melts. <i>Soft Materials</i> , 2014, 12, S49-S55.	0.8	6
102	Frozen Topology: Entanglements Control Nucleation and Crystallization in Polymers. <i>Physical Review Letters</i> , 2014, 112, 195702.	2.9	124
103	Grafted Polyrotaxanes: Scaling Theory and Molecular Dynamics Simulations. <i>Macromolecules</i> , 2014, 47, 4110-4117.	2.2	5
104	Swelling of Olympic Gels. <i>Physical Review Letters</i> , 2014, 112, 238001.	2.9	35
105	Starlike polymer brushes in $\hat{\tau}$ -solvent. <i>Polymer</i> , 2014, 55, 3254-3260.	1.8	4
106	Conformational switching of modified guest chains in polymer brushes. <i>Journal of Chemical Physics</i> , 2013, 139, 044910.	1.2	18
107	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
108	Molecular dynamics simulations of electrophoresis of polyelectrolytes in nano confining cylindrical geometries. <i>Journal of Chemical Physics</i> , 2013, 138, 104905.	1.2	8

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109	Disentanglement of Linear Polymer Chains Toward Unentangled Crystals. ACS Macro Letters, 2013, 2, 31-34.	2.3	62
110	Coarse grained simulations of neutral and charged dendrimers. Polymer Science - Series C, 2013, 55, 125-153.	0.8	28
111	Semianalytical Mean-Field Model for Starlike Polymer Brushes in Good Solvent. Macromolecules, 2013, 46, 1248-1252.	2.2	31
112	Stimuli-responsive hierarchically self-assembled 3D porous polymer-based structures with aligned pores. Journal of Materials Chemistry B, 2013, 1, 1786.	2.9	31
113	Simulations of Neutral and Charged Dendrimers in Solvents of Varying Quality. Macromolecules, 2013, 46, 3107-3117.	2.2	33
114	Structure and swelling of polymer networks: insights from NMR. Soft Matter, 2013, 9, 6587.	1.2	51
115	Effective pair potentials between nanoparticles induced by single monomers and polymer chains. Soft Matter, 2013, 9, 5916.	1.2	9
116	Polymer-Induced Inverse-Temperature Crystallization of Nanoparticles on a Substrate. ACS Nano, 2013, 7, 9920-9926.	7.3	12
117	Numerical evidences for a free energy barrier in starlike polymer brushes. Journal of Chemical Physics, 2013, 139, 134910.	1.2	6
118	Single polymer chains in poor solvent: Using the bond fluctuation method with explicit solvent. Journal of Chemical Physics, 2013, 138, 094902.	1.2	18
119	Fluctuation driven height reduction of crosslinked polymer brushes: A Monte Carlo study. Journal of Chemical Physics, 2013, 139, 164903.	1.2	13
120	Charged Polymers Transport under Applied Electric Fields in Periodic Channels. Materials, 2013, 6, 3007-3021.	1.3	0
121	Adsorption of branched and dendritic polymers onto flat surfaces: A Monte Carlo study. Journal of Chemical Physics, 2013, 139, 244903.	1.2	13
122	Surface instabilities of minority chains in dense polymer brushes: A comparison of density functional theory and quasi-off-lattice self-consistent field theory. Journal of Chemical Physics, 2012, 137, 064907.	1.2	9
123	A new numerical approach to dense polymer brushes and surface instabilities. Journal of Chemical Physics, 2012, 136, 044903.	1.2	24
124	Critical adsorption controls translocation of polymer chains through lipid bilayers and permeation of solvent. Europhysics Letters, 2012, 98, 18003.	0.7	31
125	Nanoparticle-Induced Permeability of Lipid Membranes. ACS Nano, 2012, 6, 10555-10561.	7.3	90
126	Cross-Link Density Estimation of PDMS Networks with Precise Consideration of Networks Defects. Macromolecules, 2012, 45, 899-912.	2.2	174

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127	Effect of Topology on the Conformations of Ring Polymers. <i>Macromolecules</i> , 2012, 45, 7642-7648.	2.2	45
128	Inclusion Free Energy of Nanoparticles in Polymer Brushes. <i>Macromolecules</i> , 2012, 45, 8494-8501.	2.2	46
129	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
130	Mechanistic Insight into Catalyst-Transfer Polymerization of Unusual Anion-Radical Naphthalene Diimide Monomers: An Observation of Ni(0) Intermediates. <i>Macromolecules</i> , 2012, 45, 7770-7777.	2.2	60
131	Homo-polymers with balanced hydrophobicity translocate through lipid bilayers and enhance local solvent permeability. <i>Soft Matter</i> , 2012, 8, 11714.	1.2	44
132	Diblock copolymer-selective nanoparticle mixtures in the lamellar phase confined between two parallel walls: a mean field model. <i>Soft Matter</i> , 2012, 8, 11328.	1.2	5
133	Thermodynamics of Swollen Networks As Reflected in Segmental Orientation Correlations. <i>Macromolecules</i> , 2012, 45, 5513-5523.	2.2	27
134	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
135	Simulation of Complexes between a Charged Dendrimer and a Linear Polyelectrolyte with Finite Rigidity. <i>Macromolecular Theory and Simulations</i> , 2012, 21, 448-460.	0.6	9
136	Using Mean Field Theory to Guide Biofunctional Materials Design. <i>Advanced Functional Materials</i> , 2012, 22, 1391-1398.	7.8	61
137	GPU implementations of the bond fluctuation model. <i>Journal of Computational Physics</i> , 2012, 231, 2811-2824.	1.9	21
138	Polyelectrolyte Brushes: Debye Approximation and Mean-Field Theory. <i>Macromolecules</i> , 2011, 44, 3109-3116.	2.2	48
139	Growth Pathway and Precursor States in Single Lamellar Crystallization: MD Simulations. <i>Macromolecules</i> , 2011, 44, 1523-1529.	2.2	107
140	Swelling Equilibrium of a Binary Polymer Gel. <i>Macromolecules</i> , 2011, 44, 981-986.	2.2	16
141	A Model for Segregation of Chromatin after Replication: Segregation of Identical Flexible Chains in Solution. <i>Biophysical Journal</i> , 2011, 100, 2539-2547.	0.2	6
142	On the Structure of Starlike Polymer Networks. <i>Macromolecules</i> , 2011, 44, 9464-9472.	2.2	45
143	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
144	Starlike Polymer Brushes. <i>Macromolecules</i> , 2011, 44, 7043-7049.	2.2	49

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145	Adsorption of polymer chains at two impenetrable interfaces. JETP Letters, 2011, 93, 431-436.	0.4	0
146	Order and Phase Behavior of a Cylinder Forming Diblock Copolymers and Nano-Particles Mixture in Confinement: A Molecular Dynamics Study. Macromolecular Theory and Simulations, 2011, 20, 329-339.	0.6	13
147	Monte Carlo simulations of charged dendrimer-linear polyelectrolyte complexes and explicit counterions. Journal of Chemical Physics, 2011, 134, 204902.	1.2	24
148	Self-organized stiffness in regular fractal polymer structures. Physical Review E, 2011, 83, 051802.	0.8	3
149	Gelation threshold of cross-linked polymer brushes. Physical Review E, 2011, 83, 021803.	0.8	16
150	Polymer-induced entropic depletion potential. Physical Review E, 2011, 84, 041802.	0.8	29
151	Approaching charged polymer brushes. , 2011, , .		0
152	Segmental Order Parameters and Swelling in Polymer Networks. Macromolecular Symposia, 2010, 291-292, 251-257.	0.4	8
153	Polymer-decorated tethered membranes under good- and poor-solvent conditions. European Physical Journal E, 2010, 31, 383-392.	0.7	27
154	Single-chain dynamics in frozen polymer networks. Rheologica Acta, 2010, 49, 485-494.	1.1	5
155	Molecular dynamics simulations of semicrystalline polymers: Crystallization, melting, and reorganization. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2222-2232.	2.4	51
156	Simulations of polyelectrolyte dynamics in an externally applied electric field in confined geometry. Journal of Chemical Physics, 2010, 133, 244902.	1.2	8
157	Adsorption of random copolymers from a melt onto a solid surface: Monte Carlo studies. Journal of Chemical Physics, 2010, 132, 024907.	1.2	8
158	Simulations of the gyroid phase in diblock copolymers with the Gaussian disphere model. Journal of Chemical Physics, 2010, 133, 244903.	1.2	1
159	Analysis of Entanglement Length and Segmental Order Parameter in Polymer Networks. Physical Review Letters, 2010, 104, 177801.	2.9	52
160	Polyelectrolyte Brushes: MD Simulation and SCF Theory. Macromolecules, 2010, 43, 7845-7851.	2.2	34
161	Simulations of Terminally Charged Dendrimers with Flexible Spacer Chains and Explicit Counterions. Macromolecules, 2010, 43, 4418-4427.	2.2	49
162	Simulations of Dendrimers with Flexible Spacer Chains and Explicit Counterions under Low and Neutral pH Conditions. Macromolecules, 2010, 43, 10659-10667.	2.2	34

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163	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
164	Nanoscale Brushes: How to Build a Smart Surface Coating. <i>Physical Review Letters</i> , 2009, 102, 115702.	2.9	70
165	Polymer Brushes for Surface Tuning. <i>Macromolecular Rapid Communications</i> , 2009, 30, 732-740.	2.0	107
166	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
167	Coding coarse grained polymer model for LAMMPS and its application to polymer crystallization. <i>Computer Physics Communications</i> , 2009, 180, 1382-1391.	3.0	55
168	Reversibly Switchable Polymer Brushes with Hydrophobic/Hydrophilic Behavior: A Langevin Dynamics Study. <i>Macromolecules</i> , 2009, 42, 445-451.	2.2	48
169	Microphase Separation of Mixed Binary Polymer Brushes at Different Temperatures. <i>Macromolecules</i> , 2009, 42, 7194-7202.	2.2	24
170	Properties of Dendrimers with Flexible Spacer-Chains: A Monte Carlo Study. <i>Macromolecules</i> , 2009, 42, 4878-4886.	2.2	76
171	Coexistence of Melting and Growth during Heating of a Semicrystalline Polymer. <i>Physical Review Letters</i> , 2009, 102, 147801.	2.9	64
172	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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