Marcus MÃ¼ller

List of Publications by Year
in descending order

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362 papers	20,982 citations	11651 70 h-index	12597 132 g-index
367 all docs	367 docs citations	367 times ranked	15609 citing authors

#	Article	IF	Citations
1	Emerging applications of stimuli-responsive polymer materials. Nature Materials, 2010, 9, 101-113.	27.5	5,007
2	Directed Assembly of Block Copolymer Blends into Nonregular Device-Oriented Structures. Science, 2005, 308, 1442-1446.	12.6	912
3	Two-Level Structured Self-Adaptive Surfaces with Reversibly Tunable Properties. Journal of the American Chemical Society, 2003, 125, 3896-3900.	13.7	478
4	Directed Self-Assembly of Block Copolymers for Nanolithography: Fabrication of Isolated Features and Essential Integrated Circuit Geometries. ACS Nano, 2007, 1, 168-175.	14.6	424
5	Biological and synthetic membranes: What can be learned from a coarse-grained description?. Physics Reports, 2006, 434, 113-176.	25.6	279
6	Calculation of free energy through successive umbrella sampling. Journal of Chemical Physics, 2004, 120, 10925-10930.	3.0	251
7	Single chain in mean field simulations: Quasi-instantaneous field approximation and quantitative comparison with Monte Carlo simulations. Journal of Chemical Physics, 2006, 125, 184904.	3.0	211
8	Lateral versus Perpendicular Segregation in Mixed Polymer Brushes. Physical Review Letters, 2002, 88, 035502.	7.8	198
9	Monte Carlo Simulations of a Coarse Grain Model for Block Copolymers and Nanocomposites. Macromolecules, 2008, 41, 4989-5001.	4.8	198
10	Topological effects in ring polymers: A computer simulation study. Physical Review E, 1996, 53, 5063-5074.	2.1	189
11	Symmetric diblock copolymers in thin films. I. Phase stability in self-consistent field calculations and Monte Carlo simulations. Journal of Chemical Physics, 1999, 111, 5241-5250.	3.0	177
12	Monte Carlo Simulation of Long Chain Polymer Melts:Â Crossover from Rouse to Reptation Dynamics. Macromolecules, 2001, 34, 1105-1117.	4.8	166
13	Field Theoretic Study of Bilayer Membrane Fusion. I. Hemifusion Mechanism. Biophysical Journal, 2004, 87, 3277-3290.	0.5	154
14	The evaporation/condensation transition of liquid droplets. Journal of Chemical Physics, 2004, 120, 5293-5308.	3.0	153
15	Monte Carlo Studies of Wetting, Interface Localization and Capillary Condensation. Journal of Statistical Physics, 2003, 110, 1411-1514.	1.2	147
16	Rapid Directed Assembly of Block Copolymer Films at Elevated Temperatures. Macromolecules, 2008, 41, 2759-2761.	4.8	145
17	A New Mechanism of Model Membrane Fusion Determined from Monte Carlo Simulation. Biophysical Journal, 2003, 85, 1611-1623.	0.5	143
18	Phase separation in binary mixtures containing polymers: A quantitative comparison of single-chain-in-mean-field simulations and computer simulations of the corresponding multichain systems. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 934-958.	2.1	142

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19	Dimensions and Shapes of Block Copolymer Domains Assembled on Lithographically Defined Chemically Patterned Substrates. Macromolecules, 2007, 40, 90-96.	4.8	137
20	Interface and Surface Properties of Short Polymers in Solution:Â Monte Carlo Simulations and Self-Consistent Field Theory. Macromolecules, 2000, 33, 3902-3923.	4.8	136
21	Morphology of multi-component polymer systems: single chain in mean field simulation studies. Soft Matter, 2006, 2, 573-583.	2.7	134
22	Avoiding boundary effects in Wang-Landau sampling. Physical Review E, 2003, 67, 067102.	2.1	133
23	Phase diagram of a mixed polymer brush. Physical Review E, 2002, 65, 030802.	2.1	130
24	Anomalous size-dependence of interfacial profiles between coexisting phases of polymer mixtures in thin-film geometry: A Monte Carlo simulation. Journal of Chemical Physics, 1997, 107, 8175-8188.	3.0	129
25	Incorporating Fluctuations and Dynamics in Self-Consistent Field Theories for Polymer Blends. , 0, , 1-58.		126
26	Hierarchical Assembly of Nanoparticle Superstructures from Block Copolymer-Nanoparticle Composites. Physical Review Letters, 2008, 100, 148303.	7.8	126
27	MonteÂCarlo Simulation of Coarse Grain Polymeric Systems. Physical Review Letters, 2009, 102, 197801.	7.8	126
28	Long Range Bond-Bond Correlations in Dense Polymer Solutions. Physical Review Letters, 2004, 93, 147801.	7.8	122
29	Static and dynamic properties of the interface between a polymer brush and a melt of identical chains. Journal of Chemical Physics, 2006, 124, 064902.	3.0	122
30	Directed self-assembly of block copolymers by chemical or topographical guiding patterns: Optimizing molecular architecture, thin-film properties, and kinetics. Progress in Polymer Science, 2016, 54-55, 47-75.	24.7	122
31	Chain length dependence of the polymerâ€“solvent critical point parameters. Journal of Chemical Physics, 1996, 105, 802-809.	3.0	114
32	Defects in the Self-Assembly of Block Copolymers and Their Relevance for Directed Self-Assembly. Annual Review of Chemical and Biomolecular Engineering, 2015, 6, 187-216.	6.8	114
33	Theoretically informed coarse grain simulations of polymeric systems. Journal of Chemical Physics, 2009, 131, 084903.	3.0	113
34	Studying Amphiphilic Self-assembly with Soft Coarse-Grained Models. Journal of Statistical Physics, 2011, 145, 967-1016.	1.2	113
35	Fabrication of Complex Three-Dimensional Nanostructures from Self-Assembling Block Copolymer Materials on Two-Dimensional Chemically Patterned Templates with Mismatched Symmetry. Physical Review Letters, 2006, 96, 036104.	7.8	110
36	Free Energy of Defects in Ordered Assemblies of Block Copolymer Domains. ACS Macro Letters, 2012, 1, 418-422.	4.8	107

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37	Bulk and interfacial thermodynamics of a symmetric, ternary homopolymerâ€“copolymer mixture: A Monte Carlo study. Journal of Chemical Physics, 1996, 105, 8885-8901.	3.0	106
38	Topological effects in ring polymers. II. Influence of persistence length. Physical Review E, 2000, 61, 4078-4089.	2.1	105
39	Processing Pathways Decide Polymer Properties at the Molecular Level. Macromolecules, 2019, 52, 7146-7156.	4.8	105
40	Miscibility behavior and single chain properties in polymer blends: a bond fluctuation model study. Macromolecular Theory and Simulations, 1999, 8, 343-374.	1.4	104
41	Comparison of dissipative particle dynamics and Langevin thermostats for out-of-equilibrium simulations of polymeric systems. Physical Review E, 2007, 76, 026706.	2.1	104
42	â€œIntrinsicâ€•profiles and capillary waves at homopolymer interfaces: A Monte Carlo study. Physical Review E, 1999, 59, 728-738.	2.1	103
43	Translationally Invariant Slip-Spring Model for Entangled Polymer Dynamics. Physical Review Letters, 2012, 109, 148302.	7.8	102
44	Structural and thermodynamic properties of interfaces between coexisting phases in polymer blends: a Monte Carlo simulation. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 2369-2379.	1.7	100
45	Short chains at surfaces and interfaces: A quantitative comparison between density-functional theories and Monte Carlo simulations. Journal of Chemical Physics, 2003, 118, 2929.	3.0	99
46	Molecular pathways for defect annihilation in directed self-assembly. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14144-14149.	7.1	98
47	Defect Removal in the Course of Directed Self-Assembly is Facilitated in the Vicinity of the Order-Disorder Transition. Physical Review Letters, 2014, 113, 168301.	7.8	97
48	Field Theoretic Study of Bilayer Membrane Fusion: II. Mechanism of a Stalk-Hole Complex. Biophysical Journal, 2006, 90, 915-926.	0.5	96
49	Static properties of end-tethered polymers in good solution: A comparison between different models. Journal of Chemical Physics, 2004, 120, 4012-4023.	3.0	95
50	Accurate measurements of the chemical potential of polymeric systems by Monte Carlo simulation. Journal of Chemical Physics, 1994, 101, 4324-4330.	3.0	93
51	A hemi-fission intermediate links two mechanistically distinct stages of membrane fission. Nature, 2015, 524, 109-113.	27.8	91
52	Ordered Phases in Rodâ^'Coil Diblock Copolymers. Macromolecules, 1996, 29, 8900-8903.	4.8	90
53	Phase behavior of n-alkanes in supercritical solution: A Monte Carlo study. Journal of Chemical Physics, 2004, 121, 2169-2179.	3.0	89
54	Mechanism and kinetics of ordering in diblock copolymer thin films on chemically nanopatterned substrates. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3444-3459.	2.1	89

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55	Calculating the free energy of self-assembled structures by thermodynamic integration. Journal of Chemical Physics, 2008, 128, 024903.	3.0	87
56	Symmetric diblock copolymers in thin films. II. Comparison of profiles between self-consistent field calculations and Monte Carlo simulations. Journal of Chemical Physics, 1999, 111, 5251-5258.	3.0	86
57	Spinodal decomposition in a binary polymer mixture: Dynamic self-consistent-field theory and Monte Carlo simulations. Physical Review E, 2001, 64, 041804.	2.1	85
58	New mechanism of membrane fusion. Journal of Chemical Physics, 2002, 116, 2342-2345.	3.0	84
59	Bidisperse Mixed Brushes:Â Synthesis and Study of Segregation in Selective Solvent. Macromolecules, 2003, 36, 7268-7279.	4.8	84
60	Monte Carlo simulation of block copolymers. Current Opinion in Colloid and Interface Science, 2000, 5, 314-322.	7.4	83
61	Wetting and Capillary Condensation in Symmetric Polymer Blends:Â A Comparison between Monte Carlo Simulations and Self-Consistent Field Calculations. Macromolecules, 1998, 31, 8323-8346.	4.8	81
62	Remediation of Line Edge Roughness in Chemical Nanopatterns by the Directed Assembly of Overlying Block Copolymer Films. Macromolecules, 2010, 43, 2334-2342.	4.8	81
63	Adsorption Transition of a Polymer Chain at a Weakly Attractive Surface: Monte Carlo Simulation of Off-Lattice Models. Macromolecular Theory and Simulations, 2002, 11, 985-995.	1.4	79
64	Simulation of Defect Reduction in Block Copolymer Thin Films by Solvent Annealing. ACS Macro Letters, 2015, 4, 11-15.	4.8	79
65	Measuring the chemical potential of polymer solutions and melts in computer simulations. Journal of Chemical Physics, 1994, 100, 719-724.	3.0	78
66	Quantitative Comparison of Self-Consistent Field Theories for Polymers near Interfaces with Monte Carlo Simulations. Macromolecules, 1995, 28, 8639-8645.	4.8	78
67	Microphase Separation of Mixed Polymer Brushes: Dependence of the Morphology on Grafting Density, Composition, Chain-Length Asymmetry, Solvent Quality, and Selectivity. Journal of Physical Chemistry B, 2009, 113, 11384-11402.	2.6	78
68	Equation of state and critical behavior of polymer models: A quantitative comparison between Wertheimâ€™s thermodynamic perturbation theory and computer simulations. Journal of Chemical Physics, 2000, 113, 419-433.	3.0	76
69	Computational Approaches for the Dynamics of Structure Formation in Self-Assembling Polymeric Materials. Annual Review of Materials Research, 2013, 43, 1-34.	9.3	75
70	Coarse-grained models and collective phenomena in membranes: Computer simulation of membrane fusion. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 1441-1450.	2.1	72
71	Nano-dewetting: Interplay between van der Waals- and short-ranged interactions. Journal of Chemical Physics, 2001, 115, 9960-9969.	3.0	71
72	Directed Copolymer Assembly on Chemical Substrate Patterns:â€‰ A Phenomenological and Single-Chain-in-Mean-Field Simulations Study of the Influence of Roughness in the Substrate Pattern. Langmuir, 2008, 24, 1284-1295.	3.5	70

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73	Synthetic Hydrophilic Materials with Tunable Strength and a Range of Hydrophobic Interactions. Advanced Functional Materials, 2010, 20, 2240-2247.	14.9	69
74	Intra- and Interchain Correlations in Semidilute Polymer Solutions:â€‰ Monte Carlo Simulations and Renormalization Group Results. Macromolecules, 2000, 33, 4568-4580.	4.8	67
75	Single-chain dynamics in a homogeneous melt and a lamellar microphase: A comparison between Smart Monte Carlo dynamics, slithering-snake dynamics, and slip-link dynamics. Journal of Chemical Physics, 2008, 129, 164906.	3.0	67
76	Thermodynamically reversible paths of the first fusion intermediate reveal an important role for membrane anchors of fusion proteins. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2571-2576.	7.1	65
77	Structure and nucleation of pores in polymeric bilayers: A Monte Carlo simulation. Journal of Chemical Physics, 1996, 105, 8282-8292.	3.0	64
78	Memory of Surface Patterns in Mixed Polymer Brushes:â€‰ Simulation and Experiment. Langmuir, 2007, 23, 279-285.	3.5	64
79	Interface properties and bubble nucleation in compressible mixtures containing polymers. Journal of Chemical Physics, 2002, 117, 5480-5496.	3.0	63
80	Interface Localization-Delocalization in a Double Wedge: A New Universality Class with Strong Fluctuations and Anisotropic Scaling. Physical Review Letters, 2003, 90, 136101.	7.8	63
81	Main phase transition in lipid bilayers: Phase coexistence and line tension in a soft, solvent-free, coarse-grained model. Journal of Chemical Physics, 2010, 132, 155104.	3.0	63
82	Nonequilibrium Processes in Polymer Membrane Formation: Theory and Experiment. Chemical Reviews, 2021, 121, 14189-14231.	47.7	63
83	Line-Tension Controlled Mechanism for Influenza Fusion. PLoS ONE, 2012, 7, e38302.	2.5	63
84	Chain conformations and correlations in thin polymer films: A Monte Carlo study. Journal of Chemical Physics, 2002, 116, 9930-9938.	3.0	60
85	Adsorption of polymers on a brush: Tuning the order of the wetting phase transition. Journal of Chemical Physics, 2006, 124, 084907.	3.0	60
86	Dynamical Simulations of Coarse Grain Polymeric Systems: Rouse and Entangled Dynamics. Macromolecules, 2013, 46, 6287-6299.	4.8	59
87	FLAT HISTOGRAM METHOD OF WANGâ€“LANDAU AND N-FOLD WAY. International Journal of Modern Physics C, 2002, 13, 477-494.	1.7	58
88	How does the pattern of grafting points influence the structure of one-component and mixed polymer brushes?. Europhysics Letters, 2005, 71, 639-645.	2.0	57
89	Artificial multiple criticality and phase equilibria: an investigation of the PC-SAFT approach. Physical Chemistry Chemical Physics, 2005, 7, 3728.	2.8	55
90	Wetting of polymer liquids: Monte Carlo simulations and self-consistent field calculations. Journal of Physics Condensed Matter, 2003, 15, R609-R653.	1.8	54

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91	Surface excess in dilute polymer solutions and the adsorption transition versus wetting phenomena. Journal of Chemical Physics, 2003, 118, 8489-8499.	3.0	53
92	Simulations of theoretically informed coarse grain models of polymeric systems. Faraday Discussions, 2010, 144, 111-125.	3.2	53
93	Process-directed self-assembly of copolymers: Results of and challenges for simulation studies. Progress in Polymer Science, 2020, 101, 101198.	24.7	53
94	Single chain structure in thin polymer films: corrections to Floryâ€™s and Silberbergâ€™s hypotheses. Journal of Physics Condensed Matter, 2005, 17, S1697-S1709.	1.8	52
95	Concentration and energy fluctuations in a critical polymer mixture. Physical Review E, 1995, 51, 2079-2089.	2.1	51
96	Microphase Separation of Diblock Copolymer Brushes in Selective Solvents: Single-Chain-in-Mean-Field Simulations and Integral Geometry Analysis. Macromolecules, 2009, 42, 2251-2264.	4.8	51
97	Coarse-grained models for fluids and their mixtures: Comparison of Monte Carlo studies of their phase behavior with perturbation theory and experiment. Journal of Chemical Physics, 2009, 130, 044101.	3.0	51
98	Diblock Copolymers at a Homopolymerâ^'Homopolymer Interface:â€‰ A Monte Carlo Simulation. Macromolecules, 1996, 29, 8241-8248.	4.8	50
99	On two intrinsic length scales in polymer physics: Topological constraints vs. entanglement length. Europhysics Letters, 2000, 52, 406-412.	2.0	50
100	Dense orientationally ordered states of a single semiflexible macromolecule: An expanded ensemble Monte Carlo simulation. Journal of Chemical Physics, 2005, 122, 174907.	3.0	50
101	A global investigation of phase equilibria using the perturbed-chain statistical-associating-fluid-theory approach. Journal of Chemical Physics, 2005, 123, 014908.	3.0	50
102	Directed Assembly of Non-equilibrium ABA Triblock Copolymer Morphologies on Nanopatterned Substrates. ACS Nano, 2012, 6, 5440-5448.	14.6	50
103	Mechanics of membrane fusion/pore formation. Chemistry and Physics of Lipids, 2015, 185, 109-128.	3.2	50
104	Formation of Micelles in Homopolymer-Copolymer Mixtures:â€‰ Quantitative Comparison between Simulations of Long Chains and Self-Consistent Field Calculations. Macromolecules, 2006, 39, 9539-9550.	4.8	49
105	Efficient prediction of thermodynamic properties of quadrupolar fluids from simulation of a coarse-grained model: The case of carbon dioxide. Journal of Chemical Physics, 2008, 128, 104501.	3.0	49
106	COMPUTER SIMULATION OF PROFILES OF INTERFACES BETWEEN COEXISTING PHASES: DO WE UNDERSTAND THEIR FINITE SIZE EFFECTS?. International Journal of Modern Physics C, 2000, 11, 1093-1113.	1.7	48
107	Symmetric polymer blend confined into a film with antisymmetric surfaces: Interplay between wetting behavior and the phase diagram. Physical Review E, 2000, 62, 5281-5295.	2.1	48
108	Poling dynamics of lithium niobate crystals. Applied Physics B: Lasers and Optics, 2003, 76, 393-396.	2.2	47

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109	Wedge filling and interface delocalization in finite Ising lattices with antisymmetric surface fields. Physical Review E, 2003, 68, 031601.	2.1	47
110	Phase Diagram of Random Copolymer Melts:Â A Computer Simulation Study. Macromolecules, 2004, 37, 4283-4295.	4.8	47
111	Transition Path from Two Apposed Membranes to a Stalk Obtained by a Combination of Particle Simulations and String Method. Physical Review Letters, 2012, 108, 228103.	7.8	47
112	Metastable Prepores in Tension-Free Lipid Bilayers. Physical Review Letters, 2018, 120, 128103.	7.8	47
113	Liquidâ€“vapor asymmetry in pure fluids: A Monte Carlo simulation study. Journal of Chemical Physics, 1995, 102, 2562-2573.	3.0	46
114	Cyclic motion and inversion of surface flow direction in a dense polymer brush under shear. Europhysics Letters, 2008, 81, 28002.	2.0	46
115	Coarse-Grained Description of a Brushâ^'Melt Interface in Equilibrium and under Flow. Macromolecules, 2009, 42, 401-410.	4.8	45
116	Computer Simulations of Polymers Close to Solid Interfaces: Some Selected Topics. Journal of Materials Science, 2003, 11, 159-173.	1.2	44
117	Parameter passing between molecular dynamics and continuum models for droplets on solid substrates: The static case. Journal of Chemical Physics, 2013, 138, 064905.	3.0	44
118	Theoretically informed entangled polymer simulations: linear and non-linear rheology of melts. Soft Matter, 2013, 9, 2030.	2.7	43
119	Unmixing of Polymer Blends Confined in Ultrathin Films:Â Crossover between Two-Dimensional and Three-Dimensional Behaviorâ€. Journal of Physical Chemistry B, 2005, 109, 6544-6552.	2.6	41
120	Curvature-Dependent Elastic Properties of Liquid-Ordered Domains Result in Inverted Domain Sorting on Uniaxially Compressed Vesicles. Physical Review Letters, 2011, 106, 148102.	7.8	41
121	The interplay between wetting and phase behaviour in binary polymer films and wedges: Monte Carlo simulations and mean field calculations. Journal of Physics Condensed Matter, 2005, 17, S333-S361.	1.8	40
122	Directing the Self-Assembly of Block Copolymers into A Metastable Complex Network Phase via A Deep and Rapid Quench. Physical Review Letters, 2013, 111, 267801.	7.8	40
123	Dynamics and Rheology of Polymer Melts via Hierarchical Atomistic, Coarse-Grained, and Slip-Spring Simulations. Macromolecules, 2021, 54, 2740-2762.	4.8	40
124	Calculation of the phase behavior of lipids. Physical Review E, 1998, 57, 6973-6978.	2.1	39
125	Non-monotonous crossover between capillary condensation and interface localisation/delocalisation transition in binary polymer blends. Europhysics Letters, 2000, 50, 724-730.	2.0	39
126	Interface localization-delocalization transition in a symmetric polymer blend: A finite-size scaling Monte Carlo study. Physical Review E, 2001, 63, 021602.	2.1	39

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127	Thin films of asymmetric triblock copolymers: A Monte Carlo study. Journal of Chemical Physics, 2003, 118, 905-913.	3.0	39
128	Order-parameter-based Monte Carlo simulation of crystallization. Journal of Chemical Physics, 2006, 124, 134102.	3.0	39
129	Temperature Dependence of the Slip Length in Polymer Melts at Attractive Surfaces. Physical Review Letters, 2008, 101, 026101.	7.8	39
130	Polymerâ€“solid contacts described by soft, coarse-grained models. Physical Chemistry Chemical Physics, 2011, 13, 10491.	2.8	38
131	Thermodynamics and Kinetics of Defect Motion and Annihilation in the Self-Assembly of Lamellar Diblock Copolymers. Macromolecules, 2016, 49, 6126-6138.	4.8	38
132	Multi-architecture Monte-Carlo (MC) simulation of soft coarse-grained polymeric materials: SOft coarse grained Monte-Carlo Acceleration (SOMA). Computer Physics Communications, 2019, 235, 463-476.	7.5	38
133	Effect of long-range forces on the interfacial profiles in thin binary polymer films. Journal of Chemical Physics, 1999, 110, 1221-1229.	3.0	37
134	Wetting of a short chain liquid on a brush: First-order and critical wetting transitions. Europhysics Letters, 2001, 55, 221-227.	2.0	37
135	Enhanced sampling in simulations of dense systems: The phase behavior of collapsed polymer globules. Journal of Chemical Physics, 2001, 115, 630-635.	3.0	37
136	Elastic properties of polymer interfaces: Aggregation of pure diblock, mixed diblock, and triblock copolymers. Physical Review E, 2002, 66, 041805.	2.1	37
137	Properties of Random Block Copolymer Morphologies: Molecular Dynamics and Single-Chain-in-Mean-Field Simulations. Macromolecules, 2012, 45, 1107-1117.	4.8	37
138	Statics and dynamics of a cylindrical droplet under an external body force. Journal of Chemical Physics, 2008, 128, 014709.	3.0	36
139	Raft Formation in Lipid Bilayers Coupled to Curvature. Biophysical Journal, 2014, 107, 1591-1600.	0.5	36
140	Poly(N-isopropylacrylamide)-Based Mixed Brushes: A Computer Simulation Study. ACS Applied Materials & Interfaces, 2015, 7, 12450-12462.	8.0	36
141	How do droplets on a surface depend on the system size?. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 206, 277-291.	4.7	35
142	Self-Assembly in Thin Films of Mixtures of Block Copolymers and Homopolymers Interacting by Hydrogen Bonds. Macromolecules, 2010, 43, 7734-7743.	4.8	35
143	Mechanism of the Cassie-Wenzel transition via the atomistic and continuum string methods. Journal of Chemical Physics, 2015, 142, 104701.	3.0	35
144	Interfaces between highly incompatible polymers of different stiffness: Monte Carlo simulations and self-consistent field calculations. Journal of Chemical Physics, 1997, 107, 10764-10776.	3.0	34

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145	Finite size effects on the phase diagram of a binary mixture confined between competing walls. Physica A: Statistical Mechanics and Its Applications, 2000, 279, 188-194.	2.6	34
146	Measuring excess free energies of self-assembled membrane structures. Faraday Discussions, 2010, 144, 369-391.	3.2	34
147	Test of a scaling hypothesis for the structure factor of disordered diblock copolymer melts. Soft Matter, 2012, 8, 11310.	2.7	34
148	Mechanisms of Vesicle Spreading on Surfaces: Coarse-Grained Simulations. Langmuir, 2013, 29, 4335-4349.	3.5	34
149	A multi-chain polymer slip-spring model with fluctuating number of entanglements: Density fluctuations, confinement, and phase separation. Journal of Chemical Physics, 2017, 146, 014903.	3.0	34
150	Reactions at Polymer Interfaces:â€‰ A Monte Carlo Simulation. Macromolecules, 1997, 30, 6353-6357.	4.8	33
151	Light deflection from ferroelectric domain boundaries. Applied Physics B: Lasers and Optics, 2004, 78, 367-370.	2.2	33
152	A Monte Carlo test of the Fisherâ€“Nakanishiâ€“Scaling theory for the capillary condensation critical point. Journal of Chemical Physics, 2001, 114, 5853-5862.	3.0	32
153	Phase diagram of solutions of stiff-chain macromolecules: A Monte Carlo simulation. Journal of Chemical Physics, 2003, 118, 10333-10342.	3.0	32
154	Anomalous scaling of the critical temperature of unmixing with chain length for two-dimensional polymer blends. Europhysics Letters, 2003, 61, 214-220.	2.0	32
155	Speeding Up Intrinsically Slow Collective Processes in Particle Simulations by Concurrent Coupling to a Continuum Description. Physical Review Letters, 2011, 107, 227801.	7.8	32
156	Nonequilibrium Simulations of Lamellae Forming Block Copolymers under Steady Shear: A Comparison of Dissipative Particle Dynamics and Brownian Dynamics. Macromolecules, 2012, 45, 8109-8116.	4.8	32
157	Correlation between surface topography and slippage: a Molecular Dynamics study. Soft Matter, 2013, 9, 3613.	2.7	32
158	Conformational Properties of Semiflexible Chains at Nematic Ordering Transitions in Thin Films: A Monte Carlo Simulation. Macromolecules, 2014, 47, 1206-1220.	4.8	32
159	Single-Chain Conformations in Symmetric Binary Polymer Blends:Â Quantitative Comparison between Self-Consistent Field Calculations and Monte Carlo Simulations. Macromolecules, 1998, 31, 9044-9057.	4.8	31
160	Critical lines and phase coexistence of polymer solutions: A quantitative comparison between Wertheimâ€™s thermodynamic perturbation theory and computer simulations. Journal of Chemical Physics, 2002, 117, 6360-6371.	3.0	31
161	Monte Carlo simulations of copolymers at homopolymer interfaces: Interfacial structure as a function of the copolymer density. Journal of Chemical Physics, 1999, 110, 5370-5379.	3.0	30
162	Computing free energies of interfaces in self-assembling systems. Physical Chemistry Chemical Physics, 2009, 11, 2087.	2.8	30

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163	Deviations from the mean-field predictions for the phase behaviour of random copolymers melts. Europhysics Letters, 2002, 58, 660-665.	2.0	29
164	Micelles of Coilâ^'Comb Block Copolymers in Selective Solvents: Competition of Length Scales. Macromolecules, 2010, 43, 2037-2041.	4.8	29
165	Orientational ordering transitions of semiflexible polymers in thin films: A Monte Carlo simulation. Physical Review E, 2011, 84, 041810.	2.1	29
166	Functional Macromolecular Systems: Kinetic Pathways to Obtain Tailored Structures. Macromolecular Chemistry and Physics, 2019, 220, 1800334.	2.2	29
167	Simulation of Phase Transitions of Single Polymer Chains: Recent Advances. Macromolecular Symposia, 2006, 237, 128-138.	0.7	28
168	Conformational Changes of a Single Semiflexible Macromolecule Near an Adsorbing Surface: A Monte Carlo Simulation. Journal of Physical Chemistry B, 2009, 113, 3653-3668.	2.6	28
169	Uniform Distance Scaling Behavior of Planetâ€“Satellite Nanostructures Made by Star Polymers. Langmuir, 2017, 33, 2017-2026.	3.5	28
170	Stability of thin polymer films: Influence of solvents. Journal of Chemical Physics, 2004, 121, 3816-3828.	3.0	27
171	Phase separation kinetics in compressible polymer solutions: computer simulation of the early stages. New Journal of Physics, 2004, 6, 7-7.	2.9	27
172	An algorithm for the semi-grand-canonical simulation of asymmetric polymer mixtures. Computer Physics Communications, 1994, 84, 173-185.	7.5	26
173	Observation of autophobic dewetting on polymer brushes from computer simulation. Journal of Physics Condensed Matter, 2005, 17, S3523-S3528.	1.8	26
174	Simulation estimates of cloud points of polydisperse fluids. Physical Review E, 2006, 73, 046110.	2.1	26
175	Statics of polymer droplets on deformable surfaces. Journal of Chemical Physics, 2011, 135, 214703.	3.0	26
176	Wall-induced orientational order in athermal semidilute solutions of semiflexible polymers: Monte Carlo simulations of a lattice model. Journal of Chemical Physics, 2013, 138, 234903.	3.0	26
177	Free-energy calculation methods for collective phenomena in membranes. Journal Physics D: Applied Physics, 2015, 48, 343001.	2.8	26
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