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	Is the â€œBricks-and-Mortarâ€•Mesophase Bicontinuous? Dynamic Simulations of Miktoarm Block Copolymer/Homopolymer Blends. Macromolecules, 2022, 55, 745-758.	4.8	3
2	Phase Separation of Regular, Quasi-Two-Dimensional AB Copolymer Networks. Macromolecules, 2022, 55, 1279-1294.	4.8	4
3	Memory in the relaxation of a polymer density modulation. Journal of Chemical Physics, 2022, 156, 124902.	3.0	4
4	A versatile setup for studying size and charge-state selected polyanionic nanoparticles. Review of Scientific Instruments, 2022, 93, 043301.	1.3	2
5	Phase Separation of Randomly Cross-Linked Diblock Copolymers. Macromolecules, 2022, 55, 5567-5580.	4.8	1
6	Wall-Spring Thermostat: A Novel Approach for Controlling the Dynamics of Soft Coarse-Grained Polymer Fluids at Surfaces. Macromolecules, 2022, 55, 5550-5566.	4.8	2
7	Molecular simulations and hydrodynamic theory of nonlocal shear-stress correlations in supercooled fluids. Journal of Chemical Physics, 2022, 157, .	3.0	5
8	Bottlebrush Block Copolymer Assembly in Ultraconfined Films: Effect of Substrate Selectivity. Macromolecules, 2021, 54, 2079-2089.	4.8	8
9	Lithographically Defined Cross-Linkable Top Coats for Nanomanufacturing with High-Ï‡ Block Copolymers. ACS Applied Materials & Interfaces, 2021, 13, 11224-11236.	8.0	10
10	How does curvature affect the free-energy barrier of stalk formation? Small vesicles vs apposing, planar membranes. European Biophysics Journal, 2021, 50, 253-264.	2.2	9
11	Dynamics and Rheology of Polymer Melts via Hierarchical Atomistic, Coarse-Grained, and Slip-Spring Simulations. Macromolecules, 2021, 54, 2740-2762.	4.8	40
12	The effect of polydispersity, shape fluctuations and curvature on small unilamellar vesicle small-angle X-ray scattering curves. Journal of Applied Crystallography, 2021, 54, 557-568.	4.5	7
13	Cresting the Coulomb Barrier of Polyanionic Metal Clusters. Physical Review Letters, 2021, 126, 133001.	7.8	6
14	Nonequilibrium Processes in Polymer Membrane Formation: Theory and Experiment. Chemical Reviews, 2021, 121, 14189-14231.	47.7	63
15	Thermal Imaging of Block Copolymers with Sub-10 nm Resolution. ACS Nano, 2021, 15, 9005-9016.	14.6	4
16	Dynamics of Nonequilibrium Single-Chain Conformations in Triblock Copolymers. Macromolecules, 2021, 54, 6296-6311.	4.8	4
17	Dynamics of Long Entangled Polyisoprene MeltsviaMultiscale Modeling. Macromolecules, 2021, 54, 8693-8713.	4.8	14
18	Liquid and Droplet Transport in Brush-Coated Cylindrical Nanochannels: Brush-Assisted Droplet Formation. Journal of Physical Chemistry B, 2021, 125, 442-449.	2.6	2

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19	Evaporation-Induced Liquid Expansion and Bubble Formation in Binary Mixtures. Physical Review Letters, 2021, 126, 028003.	7.8	5
20	Size and charge-state dependence of detachment energies of polyanionic silver clusters. Journal of Chemical Physics, 2021, 155, 164303.	3.0	3
21	Microscopic Model to Quantify the Difference of Energy-Transfer Rates between Bonded and Nonbonded Monomers in Polymers. Macromolecules, 2021, 54, 10969-10983.	4.8	6
22	Multifunctional Top-Coats Strategy for DSA of High-Ï‡ Block Copolymers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 11-16.	0.3	2
23	Selection of Advances in Theory and Simulation during the First Decade of ACS Macro Letters. ACS Macro Letters, 2021, 10, 1629-1635.	4.8	2
24	Process-directed self-assembly of copolymers: Results of and challenges for simulation studies. Progress in Polymer Science, 2020, 101, 101198.	24.7	53
25	Selfâ€Assembly of Surfaceâ€Acylated Cellulose Nanowhiskers and Graphene Oxide for Multiresponsive Janusâ€Like Films with Timeâ€Dependent Dryâ€State Structures. Small, 2020, 16, e2004922.	10.0	7
26	Nonequilibrium Molecular Conformations in Polymer Self-Consistent Field Theory. Macromolecules, 2020, 53, 10457-10474.	4.8	9
27	Prediction of Kinetically Stable Nanotheranostic Superstructures: Integral of First-Passage Times from Constrained Simulations. Biomacromolecules, 2020, 21, 5008-5020.	5.4	4
28	Symmetric Diblock Copolymers in Cylindrical Confinement: A Way to Chiral Morphologies?. ACS Applied Materials & Interfaces, 2020, 12, 50077-50095.	8.0	4
29	Kinetic Pathways of Block Copolymer Directed Self-Assembly: Insights from Efficient Continuum Modeling. ACS Nano, 2020, 14, 13986-13994.	14.6	21
30	Cathodoluminescence nano-characterization of individual GaN/AlN quantum disks embedded in nanowires. Applied Physics Letters, 2020, 117, 133106.	3.3	3
31	Multiresponsive Janusâ€Like Films: Selfâ€Assembly of Surfaceâ€Acylated Cellulose Nanowhiskers and Graphene Oxide for Multiresponsive Janusâ€Like Films with Timeâ€Dependent Dryâ€State Structures (Small) Tj ETQq1 1 0.784314 rg BT		
32	Quantitative Synaptic Biology: A Perspective on Techniques, Numbers and Expectations. International Journal of Molecular Sciences, 2020, 21, 7298.	4.1	3
33	Impact of Molecular Architecture on Defect Removal in Lamella-Forming Triblock Copolymers. Macromolecules, 2020, 53, 5337-5349.	4.8	7
34	Rheology of symmetric diblock copolymers. Computational Materials Science, 2019, 169, 109107.	3.0	9
35	Anomalous Ostwald Ripening Enables 2D Polymer Crystals via Fast Evaporation. Physical Review Letters, 2019, 123, 207801.	7.8	18
36	Processing Pathways Decide Polymer Properties at the Molecular Level. Macromolecules, 2019, 52, 7146-7156.	4.8	105

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37	Controlled Spacing between Nanopatterned Regions in Block Copolymer Films Obtained by Utilizing Substrate Topography for Local Film Thickness Differentiation. ACS Applied Materials & Interfaces, 2019, 11, 35247-35254.	8.0	18
38	Collective Short-Time Dynamics in Multicomponent Polymer Melts. Macromolecules, 2019, 52, 7704-7720.	4.8	19
39	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
40	Interface Repulsion and Lamellar Structures in Thin Films of Homopolymer Blends due to Thermal Oscillations. Physical Review Letters, 2019, 122, 237801.	7.8	3
41	Engineering Scale Simulation of Nonequilibrium Network Phases for Battery Electrolytes. Macromolecules, 2019, 52, 2050-2062.	4.8	13
42	Nanoscale mapping of carrier recombination in GaAs/AlGaAs core-multishell nanowires by cathodoluminescence imaging in a scanning transmission electron microscope. Applied Physics Letters, 2019, 115, 243102.	3.3	4
43	Role of Penetrability into a Brush-Coated Surface in Directed Self-Assembly of Block Copolymers. ACS Applied Materials & Interfaces, 2019, 11, 3571-3581.	8.0	7
44	Functional Macromolecular Systems: Kinetic Pathways to Obtain Tailored Structures. Macromolecular Chemistry and Physics, 2019, 220, 1800334.	2.2	29
45	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
46	Highly Ordered Mesoporous Hydroxide Thin Films through Self-Assembly of Size-Tailored Nanobuilding Blocks: A Theoretical-Experimental Approach. Chemistry of Materials, 2019, 31, 322-330.	6.7	23
47	Role of translational entropy in spatially inhomogeneous, coarse-grained models. Journal of Chemical Physics, 2018, 148, .	3.0	8
48	A Detailed Examination of the Topological Constraints of Lamellae-Forming Block Copolymers. Macromolecules, 2018, 51, 2110-2124.	4.8	19
49	Diblock Copolymers with Similar Glass Transition Temperatures in Both Blocks for Comparing Shear Orientation Processes with DPD Computer Simulations. Macromolecular Chemistry and Physics, 2018, 219, 1700559.	2.2	15
50	Nanomaterial interactions with biomembranes: Bridging the gap between soft matter models and biological context. Biointerphases, 2018, 13, 028501.	1.6	23
51	Continuum models for directed self-assembly. Molecular Systems Design and Engineering, 2018, 3, 295-313.	3.4	23
52	Metastable Prepores in Tension-Free Lipid Bilayers. Physical Review Letters, 2018, 120, 128103.	7.8	47
53	Fabrication of Ellipsoidal Mesostructures in Block Copolymers via a Step-Shear Deformation. Macromolecules, 2018, 51, 275-281.	4.8	7
54	Direct imaging of Indium-rich triangular nanoprisms self-organized formed at the edges of InGaN/GaN core-shell nanorods. Scientific Reports, 2018, 8, 16026.	3.3	19

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55	Numerical algorithms for solving self-consistent field theory reversely for block copolymer systems. Journal of Chemical Physics, 2018, 149, 214104.	3.0	6
56	Step-Shear Deformation of Block Copolymers. Macromolecules, 2018, 51, 8386-8405.	4.8	3
57	Kinetics of pattern formation in symmetric diblock copolymer melts. Journal of Chemical Physics, 2018, 148, 204908.	3.0	19
58	Phase separation in mixed polymer brushes on nanoparticle surfaces enables the generation of anisotropic nanoarchitectures. Soft Matter, 2018, 14, 4551-4557.	2.7	21
59	Nanopatterning of Solvent between Apposing Planar Brushes under Pressure. Macromolecules, 2018, 51, 6387-6394.	4.8	2
60	Transitions between Lamellar Orientations in Shear Flow. Macromolecules, 2018, 51, 4642-4659.	4.8	21
61	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
62	Process-Accessible States of Block Copolymers. Physical Review Letters, 2017, 118, 067801.	7.8	23
63	Uniform Distance Scaling Behavior of Planetâ€“Satellite Nanostructures Made by Star Polymers. Langmuir, 2017, 33, 2017-2026.	3.5	28
64	Membrane stress profiles from self-consistent field theory. Journal of Chemical Physics, 2017, 146, 104901.	3.0	16
65	Ordering block copolymers with structured electrodes. Soft Matter, 2017, 13, 486-495.	2.7	9
66	Molecular Dynamics Simulation of Alkylthiol Self-Assembled Monolayers on Liquid Mercury. Langmuir, 2017, 33, 744-754.	3.5	6
67	Formation of ordered mesostructured TiO₂ thin films: a soft coarse-grained simulation study. Physical Chemistry Chemical Physics, 2017, 19, 28249-28262.	2.8	18
68	Rupturing the hemi-fission intermediate in membrane fission under tension: Reaction coordinates, kinetic pathways, and free-energy barriers. Journal of Chemical Physics, 2017, 147, 064906.	3.0	12
69	Generalization of the swelling method to measure the intrinsic curvature of lipids. Journal of Chemical Physics, 2017, 147, 224902.	3.0	1
70	Functional Poly(N-isopropylacrylamide)/Poly(acrylic acid) Mixed Brushes for Controlled Manipulation of Nanoparticles. Macromolecules, 2016, 49, 5256-5265.	4.8	13
71	Mesoscopic Simulations of Crosslinked Polymer Networks. Journal of Physics: Conference Series, 2016, 738, 012063.	0.4	9
72	Single-chain-in-mean-field simulations of weak polyelectrolyte brushes. Journal of Chemical Physics, 2016, 145, 224902.	3.0	18

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73	An integrated source/mask/DSA optimization approach. , 2016, , .		2
74	eMC: A Monte Carlo scheme with energy conservation. Europhysics Letters, 2016, 114, 20001.	2.0	4
75	Thermodynamics and Kinetics of Defect Motion and Annihilation in the Self-Assembly of Lamellar Diblock Copolymers. Macromolecules, 2016, 49, 6126-6138.	4.8	38
76	Process-directed self-assembly of multiblock copolymers: Solvent casting vs spray coating. European Physical Journal: Special Topics, 2016, 225, 1785-1803.	2.6	8
77	Dynamics and Structure of Monolayer Polymer Crystallites on Graphene. Nano Letters, 2016, 16, 6994-7000.	9.1	21
78	Alkyl-Based Surfactants at a Liquid Mercury Surface: Computer Simulation of Structure, Self-Assembly, and Phase Behavior. Journal of Physical Chemistry Letters, 2016, 7, 1546-1553.	4.6	6
79	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
80	Kinetics of Nanoscale Self-Assembly Measured on Liquid Drops by Macroscopic Optical Tensiometry: From Mercury to Water and Fluorocarbons. Journal of the American Chemical Society, 2016, 138, 2585-2591.	13.7	5
81	Defect annihilation in chemo-epitaxial directed self-assembly: Computer simulation and Self-Consistent Field Theory. Materials Research Society Symposia Proceedings, 2015, 1750, 12.	0.1	2
82	Alignment of Copolymer Morphology by Planar Step Elongation during Spinodal Self-Assembly. Physical Review Letters, 2015, 115, 228301.	7.8	11
83	Calculation of membrane bending rigidity using field-theoretic umbrella sampling. Journal of Chemical Physics, 2015, 143, 243155.	3.0	14
84	Mechanism of the Cassie-Wenzel transition via the atomistic and continuum string methods. Journal of Chemical Physics, 2015, 142, 104701.	3.0	35
85	Surface tension of liquid mercury: a comparison of density-dependent and density-independent force fields. European Physical Journal B, 2015, 88, 1.	1.5	5
86	Kinetics of directed self-assembly of block copolymers on chemically patterned substrates. Journal of Physics: Conference Series, 2015, 640, 012010.	0.4	16
87	Morphology Modulation of Multicomponent Polymer Brushes in Selective Solvent by Patterned Surfaces. Macromolecules, 2015, 48, 213-228.	4.8	6
88	Mechanics of membrane fusion/pore formation. Chemistry and Physics of Lipids, 2015, 185, 109-128.	3.2	50
89	Poly(N-isopropylacrylamide)-Based Mixed Brushes: A Computer Simulation Study. ACS Applied Materials & Interfaces, 2015, 7, 12450-12462.	8.0	36
90	Simulation of Defect Reduction in Block Copolymer Thin Films by Solvent Annealing. ACS Macro Letters, 2015, 4, 11-15.	4.8	79

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91	Free-energy calculation methods for collective phenomena in membranes. Journal Physics D: Applied Physics, 2015, 48, 343001.	2.8	26
92	A hemi-fission intermediate links two mechanistically distinct stages of membrane fission. Nature, 2015, 524, 109-113.	27.8	91
93	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
94	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
95	High-order sampling schemes for path integrals and Gaussian chain simulations of polymers. Journal of Chemical Physics, 2015, 142, 174105.	3.0	11
96	Living Polymer Systems at a Solid Substrate: Computer Simulation of a Soft, Coarse-Grained Model and Self-Consistent Field Theory. Macromolecules, 2015, 48, 6016-6034.	4.8	1
97	Process-directed self-assembly of block copolymers: a computer simulation study. Journal of Physics Condensed Matter, 2015, 27, 194101.	1.8	5
98	Coarse-grained simulation of dynamin-mediated fission. Soft Matter, 2015, 11, 1464-1480.	2.7	24
99	Interfaces and Interphases in Dense, Polydisperse Living Polymer Systems: A Comparison Between Computer Simulation and Self-Consistent Field Theory. Soft Materials, 2014, 12, S31-S40.	1.7	2
100	Raft Formation in Lipid Bilayers Coupled to Curvature. Biophysical Journal, 2014, 107, 1591-1600.	0.5	36
101	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
102	Mixed brush of chemically and physically adsorbed polymers under shear: Inverse transport of the physisorbed species. Journal of Chemical Physics, 2014, 140, 014901.	3.0	12
103	Collective Lipid Bilayer Dynamics Excited by Surface Acoustic Waves. Physical Review Letters, 2014, 113, 118102.	7.8	16
104	Measuring the composition-curvature coupling in binary lipid membranes by computer simulations. Journal of Chemical Physics, 2014, 141, 194902.	3.0	13
105	Arm Retraction Dynamics and Bistability of a Three-Arm Star Polymer in a Nanopore. Macromolecules, 2014, 47, 2156-2168.	4.8	8
106	Block Copolymer Ordering in Cylindrical Capacitors. Macromolecules, 2014, 47, 1850-1864.	4.8	11
107	Directed transport of polymer drops on vibrating superhydrophobic substrates: a molecular dynamics study. Soft Matter, 2014, 10, 4373.	2.7	18
108	Conformational Properties of Semiflexible Chains at Nematic Ordering Transitions in Thin Films: A Monte Carlo Simulation. Macromolecules, 2014, 47, 1206-1220.	4.8	32

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109	Rigorous simulation and optimization of the lithography/directed self-assembly co-process. Proceedings of SPIE, 2014, , .	0.8	0
110	Dynamical Simulations of Coarse Grain Polymeric Systems: Rouse and Entangled Dynamics. Macromolecules, 2013, 46, 6287-6299.	4.8	59
111	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
112	Interbilayer repulsion forces between tension-free lipid bilayers from simulation. Soft Matter, 2013, 9, 10705.	2.7	22
113	Fusion Proteins - Different Tools for Different Jobs?. Biophysical Journal, 2013, 104, 664a.	0.5	0
114	Correlation between surface topography and slippage: a Molecular Dynamics study. Soft Matter, 2013, 9, 3613.	2.7	32
115	Theoretically informed entangled polymer simulations: linear and non-linear rheology of melts. Soft Matter, 2013, 9, 2030.	2.7	43
116	Exploring thermodynamic stability of the stalk fusion-intermediate with three-dimensional self-consistent field theory calculations. Soft Matter, 2013, 9, 4097.	2.7	13
117	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
118	Mechanisms of Vesicle Spreading on Surfaces: Coarse-Grained Simulations. Langmuir, 2013, 29, 4335-4349.	3.5	34
119	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
120	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
121	The role of inertia and coarse-graining on the transverse modes of lipid bilayers. Europhysics Letters, 2012, 97, 68010.	2.0	15
122	Random Block Copolymers: Structure, Dynamics, and Mechanical Properties in the Bulk and at Selective Substrates. Macromolecules, 2012, 45, 9841-9853.	4.8	19
123	Polymers at Interfaces and Surfaces and in Confined Geometries. , 2012, , 387-416.		7
124	Properties of Random Block Copolymer Morphologies: Molecular Dynamics and Single-Chain-in-Mean-Field Simulations. Macromolecules, 2012, 45, 1107-1117.	4.8	37
125	Directed Assembly of Non-equilibrium ABA Triblock Copolymer Morphologies on Nanopatterned Substrates. ACS Nano, 2012, 6, 5440-5448.	14.6	50
126	Translationally Invariant Slip-Spring Model for Entangled Polymer Dynamics. Physical Review Letters, 2012, 109, 148302.	7.8	102

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127	Free Energy of Defects in Ordered Assemblies of Block Copolymer Domains. ACS Macro Letters, 2012, 1, 418-422.	4.8	107
128	Geometry-Controlled Interface Localization-Delocalization Transition in Block Copolymers. Physical Review Letters, 2012, 109, 087801.	7.8	12
129	Test of a scaling hypothesis for the structure factor of disordered diblock copolymer melts. Soft Matter, 2012, 8, 11310.	2.7	34
130	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
131	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
132	Line-Tension Controlled Mechanism for Influenza Fusion. PLoS ONE, 2012, 7, e38302.	2.5	63
133	Polymerâ€“solid contacts described by soft, coarse-grained models. Physical Chemistry Chemical Physics, 2011, 13, 10491.	2.8	38
134	Molecular transport and flow past hard and soft surfaces: computer simulation of model systems. Journal of Physics Condensed Matter, 2011, 23, 184105.	1.8	11
135	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
136	Quasi-Block Copolymers: Design, Synthesis, and Evidence for Their Formation in Solution and in the Melt. Macromolecules, 2011, 44, 9773-9781.	4.8	18
137	Orientational ordering transitions of semiflexible polymers in thin films: A Monte Carlo simulation. Physical Review E, 2011, 84, 041810.	2.1	29
138	Statics of polymer droplets on deformable surfaces. Journal of Chemical Physics, 2011, 135, 214703.	3.0	26
139	Studying Amphiphilic Self-assembly with Soft Coarse-Grained Models. Journal of Statistical Physics, 2011, 145, 967-1016.	1.2	113
140	Phase Behavior of Polymerâ€Containing Systems: Recent Advances Through Computer Simulation. Macromolecular Theory and Simulations, 2011, 20, 600-613.	1.4	9
141	An Alternate Path for Fusion and its Exploration by Field-Theoretic Means. Current Topics in Membranes, 2011, 68, 295-323.	0.9	8
142	Monte-Carlo simulation of ternary blends of block copolymers and homopolymers. Journal of Chemical Physics, 2011, 135, 114904.	3.0	13
143	Three-phase coexistence with sequence partitioning in symmetric random block copolymers. Physical Review E, 2011, 83, 051131.	2.1	10
144	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

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145	Photovoltaically rechargeable fuel cell accumulator for energy self-sufficient microsystems. , 2011, , .		1
146	Monte Carlo study of molecular weight distribution changes induced by degradation of ion beam irradiated polymers. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3235-3238.	1.4	1
147	Synthetic Hydrophilic Materials with Tunable Strength and a Range of Hydrophobic Interactions. Advanced Functional Materials, 2010, 20, 2240-2247.	14.9	69
148	Emerging applications of stimuli-responsive polymer materials. Nature Materials, 2010, 9, 101-113.	27.5	5,007
149	Directed Assembly of Supramolecular Copolymers in Thin Films: Thermodynamic and Kinetic Advantages. Physical Review Letters, 2010, 105, 108301.	7.8	19
150	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
151	Polymer Phase Separation. Series in Sof Condensed Matter, 2010, , 47-83.	0.1	1
152	Micelles of Coilâ˜Comb Block Copolymers in Selective Solvents: Competition of Length Scales. Macromolecules, 2010, 43, 2037-2041.	4.8	29
153	Sequence Fractionation in Symmetric Random Block Copolymers. Macromolecules, 2010, 43, 3161-3164.	4.8	8
154	Memory Effects of Diblock Copolymer Brushes and Mixed Brushes. Langmuir, 2010, 26, 1291-1303.	3.5	21
155	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
156	Measuring excess free energies of self-assembled membrane structures. Faraday Discussions, 2010, 144, 369-391.	3.2	34
157	Simulations of theoretically informed coarse grain models of polymeric systems. Faraday Discussions, 2010, 144, 111-125.	3.2	53
158	Self-Assembly in Thin Films of Mixtures of Block Copolymers and Homopolymers Interacting by Hydrogen Bonds. Macromolecules, 2010, 43, 7734-7743.	4.8	35
159	Theoretically informed coarse grain simulations of polymeric systems. Journal of Chemical Physics, 2009, 131, 084903.	3.0	113
160	Nucleation in A/B/AB blends: Interplay between microphase assembly and macrophase separation. Journal of Chemical Physics, 2009, 130, 154902.	3.0	24
161	Hydrodynamic boundary condition of polymer melts at simple and complex surfaces. Computer Physics Communications, 2009, 180, 600-604.	7.5	10
162	Concurrent coupling between a particle simulation and a continuum description. European Physical Journal: Special Topics, 2009, 177, 149-164.	2.6	13

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163	Phase behaviour of quasi-block copolymers: A DFT-based Monte-Carlo study. Soft Matter, 2009, 5, 4499.	2.7	23
164	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
165	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
166	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
167	Comparison of Simulations of Lipid Membranes with Membranes of Block Copolymers. Advances in Polymer Science, 2009, , 43-85.	0.8	10
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	Coarse-Grained Description of a Brushâ"Melt Interface in Equilibrium and under Flow. Macromolecules, 2009, 42, 401-410.	4.8	45
170	MonteÂCarlo Simulation of Coarse Grain Polymeric Systems. Physical Review Letters, 2009, 102, 197801.	7.8	126
171	Coarse-graining dipolar interactions in simple fluids and polymer solutions: Monte Carlo studies of the phase behavior. Physical Chemistry Chemical Physics, 2009, 11, 1923.	2.8	11
172	Computing free energies of interfaces in self-assembling systems. Physical Chemistry Chemical Physics, 2009, 11, 2087.	2.8	30
173	Comparison of Simulations of Lipid Membranes with Membranes of Block Copolymers. Advances in Polymer Science, 2009, , .	0.8	2
174	Phase transitions and interface fluctuations in double wedges and bi-pyramids with competing surface fields. European Physical Journal B, 2008, 64, 499-503.	1.5	3
175	Flow, slippage and a hydrodynamic boundary condition of polymers at surfaces. Journal of Physics Condensed Matter, 2008, 20, 494225.	1.8	19
176	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
177	Liquidâ€"Liquid and Liquidâ€"Vapor Interfaces in Polymeric Systems. , 2008, , 183-202.		0
178	Hierarchical Assembly of Nanoparticle Superstructures from Block Copolymer-Nanoparticle Composites. Physical Review Letters, 2008, 100, 148303.	7.8	126
179	Monte Carlo Simulations of a Coarse Grain Model for Block Copolymers and Nanocomposites. Macromolecules, 2008, 41, 4989-5001.	4.8	198
180	Cyclic motion and inversion of surface flow direction in a dense polymer brush under shear. Europhysics Letters, 2008, 81, 28002.	2.0	46

#	Article	IF	Citations
181	Rapid Directed Assembly of Block Copolymer Films at Elevated Temperatures. Macromolecules, 2008, 41, 2759-2761.	4.8	145
182	Monte Carlo Simulation of a Homopolymerâ^'Copolymer Mixture Interacting with a Surface: Bulk versus Surface Micelles and Brush Formation. Macromolecules, 2008, 41, 4937-4944.	4.8	15
183	Statics and dynamics of a cylindrical droplet under an external body force. Journal of Chemical Physics, 2008, 128, 014709.	3.0	36
184	Calculating the free energy of self-assembled structures by thermodynamic integration. Journal of Chemical Physics, 2008, 128, 024903.	3.0	87
185	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
186	Generating multichain configurations of an inhomogeneous melt from the knowledge of single-chain properties. Journal of Chemical Physics, 2008, 128, 224911.	3.0	5
187	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
188	Spinodal decomposition of polymer solutions: A parallelized molecular dynamics simulation. Physical Review E, 2008, 78, 031801.	2.1	20
189	Temperature Dependence of the Slip Length in Polymer Melts at Attractive Surfaces. Physical Review Letters, 2008, 101, 026101.	7.8	39
190	Equation of state for macromolecules of variable flexibility in good solvents: A comparison of techniques for Monte Carlo simulations of lattice models. Physical Review E, 2007, 76, 026702.	2.1	18
191	Dynamical behavior of three-dimensional confined Ising systems with short- and long-range competing surface fields. Physical Review E, 2007, 75, 051603.	2.1	2
192	Ordering of Diblock Copolymer Materials on Patterned Substrates: a Single Chain in Mean Field Simulation Study. Macromolecular Symposia, 2007, 252, 68-75.	0.7	2
193	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
194	Memory of Surface Patterns in Mixed Polymer Brushes:â€‰ Simulation and Experiment. Langmuir, 2007, 23, 279-285.	3.5	64
195	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
196	Dimensions and Shapes of Block Copolymer Domains Assembled on Lithographically Defined Chemically Patterned Substrates. Macromolecules, 2007, 40, 90-96.	4.8	137
197	Monte Carlo simulations of phase transitions of systems in nanoscopic confinement. Computer Physics Communications, 2007, 177, 140-145.	7.5	9
198	Properties of the interface in the confined Ising magnet with competing surface fields. Physica B: Condensed Matter, 2007, 389, 202-205.	2.7	0

#	Article	IF	Citations
199	Properties of the Ising magnet confined in a corner geometry. Applied Surface Science, 2007, 254, 387-391.	6.1	1
200	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
201	Field Theoretic Study of Bilayer Membrane Fusion: II. Mechanism of a Stalk-Hole Complex. Biophysical Journal, 2006, 90, 915-926.	0.5	96
202	How Well Can Coarse-Grained Models of Real Polymers Describe Their Structure? The Case of Polybutadiene. Journal of Chemical Theory and Computation, 2006, 2, 588-597.	5.3	19
203	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
204	Simulation of Phase Transitions of Single Polymer Chains: Recent Advances. Macromolecular Symposia, 2006, 237, 128-138.	0.7	28
205	Directed assembly of copolymer materials on patterned substrates: Balance of simple symmetries in complex structures. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2589-2604.	2.1	19
206	Biological and synthetic membranes: What can be learned from a coarse-grained description?. Physics Reports, 2006, 434, 113-176.	25.6	279
207	Simulation Techniques for Calculating Free Energies. , 2006, , 67-126.		12
208	Morphology of multi-component polymer systems: single chain in mean field simulation studies. Soft Matter, 2006, 2, 573-583.	2.7	134
209	Interplay Between Wetting and Phase Behavior in Binary Polymer Films and Wedges: Monte Carlo Simulations and Mean Field Calculations. International Journal of Thermophysics, 2006, 27, 448-466.	2.1	2
210	Study of the dynamic growth of wetting layers in the confined Ising model with competing surface fields. Journal of Physics Condensed Matter, 2006, 18, 2761-2775.	1.8	5
211	Adsorption of polymers on a brush: Tuning the order of the wetting phase transition. Journal of Chemical Physics, 2006, 124, 084907.	3.0	60
212	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
213	Order-parameter-based Monte Carlo simulation of crystallization. Journal of Chemical Physics, 2006, 124, 134102.	3.0	39
214	Simulation estimates of cloud points of polydisperse fluids. Physical Review E, 2006, 73, 046110.	2.1	26
215	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
216	Interfaces in the confined Ising system with competing surface fields. Physica A: Statistical Mechanics and Its Applications, 2005, 352, 477-497.	2.6	18

#	Article	IF	Citations
217	Monte Carlo simulations of Ising models and polymer blends in double wedge geometry: Evidence for novel types of critical phenomena. Computer Physics Communications, 2005, 169, 226-229.	7.5	5
218	The Bond Fluctuation Model and Other Lattice Models. , 2005, , 2599-2606.		6
219	Polymer mixtures in confined geometries: Model systems to explore phase transitions. Pramana - Journal of Physics, 2005, 64, 981-989.	1.8	3
220	Fusion of biological membranes. Pramana - Journal of Physics, 2005, 64, 1127-1134.	1.8	3
221	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
222	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
223	Chain Conformations and Phase Behavior in Confined Polymer Blends. , 2005, , 3-15.		0
224	A new boundary-controlled phase transition: Phase separation in an Ising bi-pyramid with competing surface fields. Europhysics Letters, 2005, 70, 348-354.	2.0	10
225	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
226	Observation of autophobic dewetting on polymer brushes from computer simulation. Journal of Physics Condensed Matter, 2005, 17, S3523-S3528.	1.8	26
227	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
228	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
229	Phase transitions in nanosystems caused by interface motion: The Ising bipyramid with competing surface fields. Physical Review E, 2005, 72, 031603.	2.1	11
230	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
231	Suppression of Capillary Wave Broadening of Interfaces in Binary Alloys due to Elastic Interactions. Physical Review Letters, 2005, 95, 096101.	7.8	13
232	First-order interface localization-delocalization transition in thin Ising films using Wang-Landau sampling. Physical Review E, 2005, 71, 046705.	2.1	20
233	The central role of line tension in the fusion of biological membranes. Molecular Physics, 2005, 103, 3055-3059.	1.7	9
234	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

#	Article	IF	Citations
235	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
236	Equilibrium Phase Behavior of Polybutadiene/Polyisoprene Films:Â Binodals and Spinodals. Macromolecules, 2005, 38, 5158-5169.	4.8	3
237	Stabilityâ^'Instability Transition by Tuning the Effective Interface Potential in Polymeric Bilayer Films. Macromolecules, 2005, 38, 3406-3413.	4.8	15
238	Mixed Polymer Brushes: Switching of Surface Behavior and Chemical Patterning at the Nanoscale. , 2005, , 403-425.		5
239	Artificial multiple criticality and phase equilibria: an investigation of the PC-SAFT approach. Physical Chemistry Chemical Physics, 2005, 7, 3728.	2.8	55
240	Monte Carlo Simulations of Semi-Flexible Polymers. , 2005, , 171-190.		4
241	Directed Assembly of Block Copolymer Blends into Nonregular Device-Oriented Structures. Science, 2005, 308, 1442-1446.	12.6	912
242	Study of the confined Ising magnet with long-range competing boundary fields. Journal of Physics Condensed Matter, 2005, 17, 4579-4604.	1.8	10
243	Study of the dynamical approach to the interface localizationâ€“delocalization transition of the confined Ising model. Journal of Physics Condensed Matter, 2004, 16, 3853-3867.	1.8	4
244	Long Range Bond-Bond Correlations in Dense Polymer Solutions. Physical Review Letters, 2004, 93, 147801.	7.8	122
245	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
246	Phase behavior of n-alkanes in supercritical solution: A Monte Carlo study. Journal of Chemical Physics, 2004, 121, 2169-2179.	3.0	89
247	Light deflection from ferroelectric domain boundaries. Applied Physics B: Lasers and Optics, 2004, 78, 367-370.	2.2	33
248	Phase Behavior of Ultrathin Polymer Mixtures. Macromolecules, 2004, 37, 6676-6679.	4.8	11
249	Stability of thin polymer films: Influence of solvents. Journal of Chemical Physics, 2004, 121, 3816-3828.	3.0	27
250	Field Theoretic Study of Bilayer Membrane Fusion. I. Hemifusion Mechanism. Biophysical Journal, 2004, 87, 3277-3290.	0.5	154
251	Phase Diagram of Random Copolymer Melts:Â A Computer Simulation Study. Macromolecules, 2004, 37, 4283-4295.	4.8	47
252	The evaporation/condensation transition of liquid droplets. Journal of Chemical Physics, 2004, 120, 5293-5308.	3.0	153

#	Article	IF	Citations
253	Calculation of free energy through successive umbrella sampling. Journal of Chemical Physics, 2004, 120, 10925-10930.	3.0	251
254	Phase separation kinetics in compressible polymer solutions: computer simulation of the early stages. New Journal of Physics, 2004, 6, 7-7.	2.9	27
255	Polymer Models on the Lattice. , 2004, , .		2
256	The Droplet Evaporation/Condensation Transition in a Finite Volume. Springer Proceedings in Physics, 2004, , 129-133.	0.2	0
257	Computer Simulations of Polymers Close to Solid Interfaces: Some Selected Topics. Journal of Materials Science, 2003, 11, 159-173.	1.2	44
258	Monte Carlo Studies of Wetting, Interface Localization and Capillary Condensation. Journal of Statistical Physics, 2003, 110, 1411-1514.	1.2	147
259	Poling dynamics of lithium niobate crystals. Applied Physics B: Lasers and Optics, 2003, 76, 393-396.	2.2	47
260	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
261	Bidisperse Mixed Brushes:Â Synthesis and Study of Segregation in Selective Solvent. Macromolecules, 2003, 36, 7268-7279.	4.8	84
262	Avoiding boundary effects in Wang-Landau sampling. Physical Review E, 2003, 67, 067102.	2.1	133
263	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
264	Two-Level Structured Self-Adaptive Surfaces with Reversibly Tunable Properties. Journal of the American Chemical Society, 2003, 125, 3896-3900.	13.7	478
265	A New Mechanism of Model Membrane Fusion Determined from Monte Carlo Simulation. Biophysical Journal, 2003, 85, 1611-1623.	0.5	143
266	Surface excess in dilute polymer solutions and the adsorption transition versus wetting phenomena. Journal of Chemical Physics, 2003, 118, 8489-8499.	3.0	53
267	Phase diagram of solutions of stiff-chain macromolecules: A Monte Carlo simulation. Journal of Chemical Physics, 2003, 118, 10333-10342.	3.0	32
268	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
269	Wedge filling and interface delocalization in finite Ising lattices with antisymmetric surface fields. Physical Review E, 2003, 68, 031601.	2.1	47
270	Thin films of asymmetric triblock copolymers: A Monte Carlo study. Journal of Chemical Physics, 2003, 118, 905-913.	3.0	39

#	Article	IF	Citations
271	Formation of enrichment layers in thin polymer films: The influence of single chain dynamics. Journal of Chemical Physics, 2003, 118, 8476-8488.	3.0	21
272	Corner wetting in the two-dimensional Ising model: Monte Carlo results. Journal of Physics Condensed Matter, 2003, 15, 333-345.	1.8	18
273	Wetting of polymer liquids: Monte Carlo simulations and self-consistent field calculations. Journal of Physics Condensed Matter, 2003, 15, R609-R653.	1.8	54
274	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
275	On the kinetics of nematic ordering in solutions of semiflexible macromolecules: a Monte Carlo simulation. E-Polymers, 2003, 3, .	3.0	0
276	Flat Histogram Method of Wang-Landau and N-Fold Way. Springer Proceedings in Physics, 2003, , 200-204.	0.2	0
277	How Do Droplets Depend on the System Size? Droplet Condensation and Nucleation in Small Simulation Cells. , 2003, , 125-135.		0
278	Lateral versus Perpendicular Segregation in Mixed Polymer Brushes. Physical Review Letters, 2002, 88, 035502.	7.8	198
279	Phase diagram of a mixed polymer brush. Physical Review E, 2002, 65, 030802.	2.1	130
280	New mechanism of membrane fusion. Journal of Chemical Physics, 2002, 116, 2342-2345.	3.0	84
281	Chain conformations and correlations in thin polymer films: A Monte Carlo study. Journal of Chemical Physics, 2002, 116, 9930-9938.	3.0	60
282	Elastic properties of polymer interfaces: Aggregation of pure diblock, mixed diblock, and triblock copolymers. Physical Review E, 2002, 66, 041805.	2.1	37
283	Interface properties and bubble nucleation in compressible mixtures containing polymers. Journal of Chemical Physics, 2002, 117, 5480-5496.	3.0	63
284	Finite size effects in pressure measurements for Monte Carlo simulations of lattice polymer models. Journal of Chemical Physics, 2002, 117, 9934-9941.	3.0	16
285	Deviations from the mean-field predictions for the phase behaviour of random copolymers melts. Europhysics Letters, 2002, 58, 660-665.	2.0	29
286	FLAT HISTOGRAM METHOD OF WANGâ€“LANDAU AND N-FOLD WAY. International Journal of Modern Physics C, 2002, 13, 477-494.	1.7	58
287	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
288	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

#	Article	IF	Citations
289	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
290	Interplay between wetting and miscibility in thin binary polymer films. Computer Physics Communications, 2002, 147, 292-297.	7.5	9
291	Phase diagrams of hexadecaneâ€“CO2 mixtures from histogram-reweighting Monte Carlo. Computer Physics Communications, 2002, 147, 378-381.	7.5	25
292	Enhanced sampling in simulations of dense systems. Computer Physics Communications, 2002, 146, 113-117.	7.5	3
293	Phase Behavior of Binary Polymer Blends in Thin Films. Springer Proceedings in Physics, 2002, , 217-234.	0.2	0
294	Nano-dewetting: Interplay between van der Waals- and short-ranged interactions. Journal of Chemical Physics, 2001, 115, 9960-9969.	3.0	71
295	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
296	Monte Carlo Simulation of Long Chain Polymer Melts:Â Crossover from Rouse to Reptation Dynamics. Macromolecules, 2001, 34, 1105-1117.	4.8	166
297	Symmetric binary polymer blends confined in thin films between competing walls: Interplay between finite size and wetting behavior. Physical Chemistry Chemical Physics, 2001, 3, 1160-1168.	2.8	16
298	Wetting of a short chain liquid on a brush: First-order and critical wetting transitions. Europhysics Letters, 2001, 55, 221-227.	2.0	37
299	Phase diagram of polymer blends in confined geometry. Journal of Molecular Liquids, 2001, 92, 41-52.	4.9	6
300	â€˜Intrinsicâ€™ profiles and capillary waves at interfaces between coexisting phases in polymer blends. Advances in Colloid and Interface Science, 2001, 94, 237-248.	14.7	17
301	PHASE EQUILIBRIA IN THIN POLYMER FILMS. International Journal of Modern Physics B, 2001, 15, 1867-1903.	2.0	21
302	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
303	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
304	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
305	Spinodal Decomposition in Binary Polymer Blends: Monte Carlo Simulations and Dynamic Mean Field Theory. , 2001, , 3-12.		0
306	Monte Carlo simulation of polymer mixtures: recent progress. Macromolecular Symposia, 2000, 149, 1-10.	0.7	2

#	Article	IF	Citations
307	Monte Carlo simulation of block copolymers. Current Opinion in Colloid and Interface Science, 2000, 5, 314-322.	7.4	83
308	Monte Carlo investigations of phase transitions: status and perspectives. Physica A: Statistical Mechanics and Its Applications, 2000, 281, 112-128.	2.6	23
309	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
310	Interfaces in polymer blends. Macromolecular Symposia, 2000, 159, 97-104.	0.7	5
311	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
312	Non-monotonous crossover between capillary condensation and interface localisation/delocalisation transition in binary polymer blends. Europhysics Letters, 2000, 50, 724-730.	2.0	39
313	On two intrinsic length scales in polymer physics: Topological constraints vs. entanglement length. Europhysics Letters, 2000, 52, 406-412.	2.0	50
314	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
315	Topological effects in ring polymers. II. Influence of persistence length. Physical Review E, 2000, 61, 4078-4089.	2.1	105
316	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
317	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
318	Intra- and Interchain Correlations in Semidilute Polymer Solutions:â€‰ Monte Carlo Simulations and Renormalization Group Results. Macromolecules, 2000, 33, 4568-4580.	4.8	67
319	Monte Carlo Study of Critical Point Shifts in Thin Films. Springer Proceedings in Physics, 2000, , 124-128.	0.2	1
320	Symmetric diblock copolymers confined into thin films: A Monte Carlo investigation on the CRAY T3E. , 2000, , 82-91.		0
321	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
322	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
323	â€œIntrinsicâ€•profiles and capillary waves at homopolymer interfaces: A Monte Carlo study. Physical Review E, 1999, 59, 728-738.	2.1	103
324	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

#	Article	IF	Citations
325	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
326	Title is missing!. Journal of Statistical Physics, 1999, 95, 1045-1068.	1.2	19
327	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
328	How simulations clarify complex material phase transitions. Computing in Science and Engineering, 1999, 1, 10-12.	1.2	1
329	Intermolecular structure factors of macromolecules in solution:â€ƒIntegral equation results. Physical Review E, 1999, 60, 1921-1929.	2.1	13
330	Interfaces between coexisting phases in polymer mixtures: What can we learn from Monte Carlo simulations?. Macromolecular Symposia, 1999, 139, 1-11.	0.7	2
331	Interfaces in immiscible polymer blends: A Monte Carlo simulation approach on the CRAY T3E. , 1999, , 176-185.		1
332	MONTE CARLO SIMULATIONS OF INTERFACES IN POLYMER BLENDS. , 1999, , 59-127.		5
333	Interfaces in partly compatible polymer mixtures: a Monte-Carlo simulation approach. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 293-300.	2.6	11
334	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
335	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
336	Calculation of the phase behavior of lipids. Physical Review E, 1998, 57, 6973-6978.	2.1	39
337	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
338	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
339	Interfaces between coexisting phases of polymer mixtures: Comparison between Monte Carlo simulations and theoretical predictions. Macromolecular Symposia, 1997, 113, 207-220.	0.7	3
340	Reactions at Polymer Interfaces:â€‰ A Monte Carlo Simulation. Macromolecules, 1997, 30, 6353-6357.	4.8	33
341	Polymeric Alloys: Model Materials for the Understanding of the Statistical Thermodynamics of Mixtures. , 1997, , 197-206.		0
342	Diblock Copolymers at a Homopolymerâ^'Homopolymer Interface:â€‰ A Monte Carlo Simulation. Macromolecules, 1996, 29, 8241-8248.	4.8	50

#	Article	IF	Citations
343	Ordered Phases in Rodâ”Coil Diblock Copolymers. Macromolecules, 1996, 29, 8900-8903.	4.8	90
344	Chain length dependence of the polymerâ€“solvent critical point parameters. Journal of Chemical Physics, 1996, 105, 802-809.	3.0	114
345	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
346	Structure and nucleation of pores in polymeric bilayers: A Monte Carlo simulation. Journal of Chemical Physics, 1996, 105, 8282-8292.	3.0	64
347	Topological effects in ring polymers: A computer simulation study. Physical Review E, 1996, 53, 5063-5074.	2.1	189
348	Temperature Dependence of Single Chain Properties in a Binary Polymer Blend. Journal De Physique II, 1996, 6, 187-194.	0.9	14
349	Phase transitions in polymeric systems: A challenge for Monte Carlo simulation. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 27-41.	0.4	2
350	Concentration and energy fluctuations in a critical polymer mixture. Physical Review E, 1995, 51, 2079-2089.	2.1	51
351	Quantitative Comparison of Self-Consistent Field Theories for Polymers near Interfaces with Monte Carlo Simulations. Macromolecules, 1995, 28, 8639-8645.	4.8	78
352	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
353	Liquidâ€“vapor asymmetry in pure fluids: A Monte Carlo simulation study. Journal of Chemical Physics, 1995, 102, 2562-2573.	3.0	46
354	The Annihilating Random Walk as a Model for Domain Growth in One Dimension. Europhysics Letters, 1994, 25, 79-85.	2.0	5
355	Measuring the chemical potential of polymer solutions and melts in computer simulations. Journal of Chemical Physics, 1994, 100, 719-724.	3.0	78
356	Monte carlo studies of phase transitions in polymer blends and block copolymer melts. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 653-660.	0.4	2
357	An algorithm for the semi-grand-canonical simulation of asymmetric polymer mixtures. Computer Physics Communications, 1994, 84, 173-185.	7.5	26
358	Accurate measurements of the chemical potential of polymeric systems by Monte Carlo simulation. Journal of Chemical Physics, 1994, 101, 4324-4330.	3.0	93
359	Ordering kinetics in quasi-one-dimensional Ising-like systems. Journal of Statistical Physics, 1993, 73, 209-233.	1.2	8
360	Self-assembling resists for nanolithography. , 0, , .		3

#	Article	IF	Citations
361	Incorporating Fluctuations and Dynamics in Self-Consistent Field Theories for Polymer Blends. , 0, , 1-58.		126
362	Computing how copolymers form nanoscale structures. SPIE Newsroom, 0, , .	0.1	1