Xuehao He

List of Publications by Year in descending order

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61 papers	1,401 citations	516710 16 h-index	345221 36 g-index
66 all docs	66 docs citations	66 times ranked	1251 citing authors

#	Article	IF	Citations
1	Self-assembly of the symmetric diblock copolymer in a confined state: Monte Carlo simulation. Journal of Chemical Physics, 2001, 114, 10510-10513.	3.0	185
2	Spontaneous Formation of Complex Micelles from a Homogeneous Solution. Physical Review Letters, 2008, 100, 137802.	7.8	128
3	Dynamics of Spontaneous Vesicle Formation in Dilute Solutions of Amphiphilic Diblock Copolymers. Macromolecules, 2006, 39, 2654-2662.	4.8	112
4	Effect of surface field on the morphology of a symmetric diblock copolymer under cylindrical confinement. Journal of Chemical Physics, 2006, 124, 104906.	3.0	107
5	Real time synchrotron SAXS and WAXS investigations on temperature related deformation and transitions of Î²-iPP with uniaxial stretching. Polymer, 2012, 53, 1593-1601.	3.8	88
6	Complex Microstructures of Amphiphilic Diblock Copolymer in Dilute Solution. Journal of Physical Chemistry B, 2004, 108, 1731-1735.	2.6	70
7	Monte Carlo Simulation of Hyperbranched Copolymerizations in the Presence of a Multifunctional Initiator. Macromolecular Theory and Simulations, 2001, 10, 196-203.	1.4	49
8	Localizations of junction points of ABC 3-miktoarm star terpolymers. Journal of Chemical Physics, 2003, 118, 9861-9863.	3.0	44
9	Self-condensing vinyl polymerization in the presence of multifunctional initiator with unequal rate constants: Monte Carlo simulation. Polymer, 2003, 44, 6697-6706.	3.8	41
10	Computer simulation of formation of polymeric ultrafiltration membrane via immersion precipitation. Journal of Membrane Science, 2011, 371, 108-116.	8.2	33
11	Anionâ€“Dipole Interactions Make the Homopolymers Selfâ€Assemble into Multiple Nanostructures. Advanced Materials, 2015, 27, 3202-3207.	21.0	31
12	Self-assembly of star block copolymers by dynamic density functional theory. Journal of Chemical Physics, 2002, 116, 10508-10513.	3.0	30
13	Dynamics of vesicle formation from lipid droplets: Mechanism and controllability. Journal of Chemical Physics, 2009, 130, 094905.	3.0	29
14	Investigation of AB_n (n = 2, 4) type hyperbranched polymerization with cyclization and steric factors: Influences of monomer concentration, reactivity, and substitution effect. Journal of Polymer Science Part A, 2009, 47, 523-533.	2.3	22
15	Using Prenucleation To Control Complex Copolymeric Vesicle Formation in Solution. Macromolecules, 2006, 39, 8908-8910.	4.8	18
16	Kinetics of multicompartment micelle formation by self-assembly of ABC miktoarm star terpolymer in dilute solution. Soft Matter, 2012, 8, 11462.	2.7	18
17	Mechanistic Insights into the Shear-InducedÎ²-Form Crystal Formation of iPP. Macromolecular Chemistry and Physics, 2016, 217, 1354-1360.	2.2	17
18	Possibility of Design of Nanodevices by Confined Macromolecular Self-Assembly. Macromolecular Theory and Simulations, 2002, 11, 379.	1.4	16

#	Article	IF	Citations
19	Kinetics of selfâ€condensing vinyl hyperbranched polymerization in threeâ€dimensional space. Journal of Polymer Science Part A, 2008, 46, 4486-4494.	2.3	16
20	Denaturation and renaturation behaviors of short DNA in a confined space. Journal of Chemical Physics, 2014, 141, 044911.	3.0	16
21	Monte Carlo simulation for the modification of polymer via grafting. European Polymer Journal, 2000, 36, 1613-1617.	5.4	15
22	Computer simulation of the formation of anti-fouling polymeric ultrafiltration membranes with the addition of amphiphilic block copolymers. Journal of Membrane Science, 2013, 442, 97-106.	8.2	15
23	Preparation and assembly of concave polymer microparticles. RSC Advances, 2015, 5, 36680-36686.	3.6	15
24	Monte Carlo simulation of morphologies of self-assembled amphiphilic diblock copolymers in solution. Physical Review E, 2001, 63, 031804.	2.1	14
25	Interface Structure between Immiscible Reactive Polymers under Transreaction: a Monte Carlo Simulation. Macromolecular Theory and Simulations, 2005, 14, 305-311.	1.4	14
26	Diffusion-limited hyperbranched polymers with substitution effect. Journal of Chemical Physics, 2011, 134, 104901.	3.0	14
27	Phase transition of a single star polymer: A Wang-Landau sampling study. Journal of Chemical Physics, 2011, 135, 094902.	3.0	14
28	Aliphatic tertiary amine mediated synthesis of highly branched polylactide copolymers. Polymer, 2012, 53, 719-727.	3.8	14
29	Self-assembly of Janus ellipsoids: a Brownian dynamics simulation with a quantitative nonspherical-particle model. Soft Matter, 2015, 11, 7433-7439.	2.7	14
30	Ordered microstructures by assembly of ABC 3-miktoarm star terpolymers and linear homopolymers. Journal of Chemical Physics, 2004, 121, 9702-9707.	3.0	13
31	Phase segregation of a symmetric diblock copolymer in constrained space with a square-pillar array. Journal of Chemical Physics, 2012, 136, 074902.	3.0	13
32	Melting processes of oligomeric Î± and Î² isotactic polypropylene crystals at ultrafast heating rates. Journal of Chemical Physics, 2014, 140, 054901.	3.0	13
33	Phase transition of a single protein-like copolymer chain. Soft Matter, 2013, 9, 3106.	2.7	12
34	Conformation of nonideal hyperbranched polymer in AB_n(n= 2, 4) type polymerization. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 610-616.	2.1	11
35	A coarse-grained molecular dynamics â€“ reactive Monte Carlo approach to simulate hyperbranched polycondensation. RSC Advances, 2014, 4, 56625-56636.	3.6	11
36	Molecular dynamics simulation of electric-field-induced self-assembly of diblock copolymers. Journal of Chemical Physics, 2016, 144, 234901.	3.0	11

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37	Angular Trapping of Spherical Janus Particles. Small Methods, 2020, 4, 2000565.	8.6	11
38	Influence of block lengths and symmetries of block copolymers on phase behavior of polymer A/polymer B/block copolymer ternary blends. Polymer, 2004, 45, 1019-1026.	3.8	10
39	Monte Carlo simulation of phase separation of A/B/A-B ternary mixtures. Macromolecular Theory and Simulations, 1999, 8, 173-178.	1.4	8
40	Phase transitions of short chains at ultralow temperature. Journal of Chemical Physics, 2003, 119, 2432-2438.	3.0	8
41	A cunning strategy in design of polymeric nanomaterials with novel microstructures. Journal of Chemical Physics, 2003, 119, 12479-12486.	3.0	8
42	Self-assembly of diblock copolymer confined in an array-structure space. Journal of Chemical Physics, 2015, 142, 101912.	3.0	8
43	Tuning phase structures of a symmetrical diblock copolymer with a patterned electric field. Soft Matter, 2016, 12, 4449-4456.	2.7	8
44	Kinetics of nonideal hyperbranched A₂+ B₃polycondensation: Simulation and comparison with experiments. Journal of Polymer Science Part A, 2010, 48, 5072-5082.	2.3	7
45	Tunable oligo-histidine self-assembled monolayer junction and charge transport by a pH modulated assembly. Physical Chemistry Chemical Physics, 2019, 21, 26058-26065.	2.8	7
46	Net motion of a charged macromolecule in a ratchet-slit. Soft Matter, 2013, 9, 11107.	2.7	5
47	Kinetics of a Multilamellar Lipid Vesicle Ripening: Simulation and Theory. Journal of Physical Chemistry B, 2016, 120, 2262-2270.	2.6	5
48	Computer simulation on the self-assembly of associating polymers. Polymer, 2003, 44, 1967-1972.	3.8	4
49	Phase transition behaviours of a single dendritic polymer. Soft Matter, 2014, 10, 4142-4150.	2.7	4
50	Monte Carlo simulation of pulsed-laser polymerization in emulsion. European Polymer Journal, 2000, 36, 2527-2530.	5.4	3
51	A DFT investigation of the mechanism for alternating copolymerization of styrene with carbon monoxide catalyzed by Pd(II) complexes. Chinese Journal of Polymer Science (English Edition), 2012, 30, 744-758.	3.8	3
52	Reaction kinetics of nonideal hyperbranched polymerizations: Influences of chain rigidity and reaction reversibility. Journal of Polymer Science Part A, 2012, 50, 2705-2714.	2.3	3
53	Dynamics of Micelle Formation from Mixed Lipid Droplets. Chinese Journal of Chemical Physics, 2013, 26, 203-210.	1.3	3
54	Self-assembly of Binary Particles with Electrostatic and van der Waals Interactions. Chinese Journal of Chemical Physics, 2014, 27, 419-427.	1.3	3

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55	Developing Coarse-Grained Force Fields for PNIPAM Single Chain from the Atomistic Model. , 2009, , .		2
56	A DFT study of the regeneration process of zinc porphyrin analogues in dye-sensitized solar cells. Dalton Transactions, 2013, 42, 13874.	3.3	2
57	Investigation of specific AB2 type hyperbranched polyesterification reaction with Monte Carlo simulation. Chinese Journal of Polymer Science (English Edition), 2013, 31, 371-376.	3.8	2
58	Mesoscale Simulation of Vesiculation of Lipid Droplets. Chinese Journal of Chemical Physics, 2014, 27, 663-671.	1.3	2
59	Computer simulation of self-assembly of cone-shaped nanoparticles. RSC Advances, 2016, 6, 66108-66119.	3.6	2
60	Computer Simulation of Thin Film Wrinkling on Elastic Substrate. Chinese Journal of Chemical Physics, 2016, 29, 284-290.	1.3	0
61	Self-assembly of amphiphilic truncated cones to form hollow nanovesicles. RSC Advances, 2018, 8, 13526-13536.	3.6	0