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	Angular Trapping of Spherical Janus Particles. Small Methods, 2020, 4, 2000565.	8.6	11
2	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
3	Self-assembly of amphiphilic truncated cones to form hollow nanovesicles. RSC Advances, 2018, 8, 13526-13536.	3.6	0
4	Computer Simulation of Thin Film Wrinkling on Elastic Substrate. Chinese Journal of Chemical Physics, 2016, 29, 284-290.	1.3	0
5	Mechanistic Insights into the Shear-InducedÎ²-Form Crystal Formation of iPP. Macromolecular Chemistry and Physics, 2016, 217, 1354-1360.	2.2	17
6	Molecular dynamics simulation of electric-field-induced self-assembly of diblock copolymers. Journal of Chemical Physics, 2016, 144, 234901.	3.0	11
7	Tuning phase structures of a symmetrical diblock copolymer with a patterned electric field. Soft Matter, 2016, 12, 4449-4456.	2.7	8
8	Computer simulation of self-assembly of cone-shaped nanoparticles. RSC Advances, 2016, 6, 66108-66119.	3.6	2
9	Kinetics of a Multilamellar Lipid Vesicle Ripening: Simulation and Theory. Journal of Physical Chemistry B, 2016, 120, 2262-2270.	2.6	5
10	Anionâ€“Dipole Interactions Make the Homopolymers Selfâ€Assemble into Multiple Nanostructures. Advanced Materials, 2015, 27, 3202-3207.	21.0	31
11	Self-assembly of diblock copolymer confined in an array-structure space. Journal of Chemical Physics, 2015, 142, 101912.	3.0	8
12	Self-assembly of Janus ellipsoids: a Brownian dynamics simulation with a quantitative nonspherical-particle model. Soft Matter, 2015, 11, 7433-7439.	2.7	14
13	Preparation and assembly of concave polymer microparticles. RSC Advances, 2015, 5, 36680-36686.	3.6	15
14	Mesoscale Simulation of Vesiculation of Lipid Droplets. Chinese Journal of Chemical Physics, 2014, 27, 663-671.	1.3	2
15	Self-assembly of Binary Particles with Electrostatic and van der Waals Interactions. Chinese Journal of Chemical Physics, 2014, 27, 419-427.	1.3	3
16	Denaturation and renaturation behaviors of short DNA in a confined space. Journal of Chemical Physics, 2014, 141, 044911.	3.0	16
17	Melting processes of oligomeric Î± and Î² isotactic polypropylene crystals at ultrafast heating rates. Journal of Chemical Physics, 2014, 140, 054901.	3.0	13
18	A coarse-grained molecular dynamics â€“ reactive Monte Carlo approach to simulate hyperbranched polycondensation. RSC Advances, 2014, 4, 56625-56636.	3.6	11

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19	Phase transition behaviours of a single dendritic polymer. Soft Matter, 2014, 10, 4142-4150.	2.7	4
20	A DFT study of the regeneration process of zinc porphyrin analogues in dye-sensitized solar cells. Dalton Transactions, 2013, 42, 13874.	3.3	2
21	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
22	Net motion of a charged macromolecule in a ratchet-slit. Soft Matter, 2013, 9, 11107.	2.7	5
23	Phase transition of a single protein-like copolymer chain. Soft Matter, 2013, 9, 3106.	2.7	12
24	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
25	Dynamics of Micelle Formation from Mixed Lipid Droplets. Chinese Journal of Chemical Physics, 2013, 26, 203-210.	1.3	3
26	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
27	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
28	Kinetics of multicompartment micelle formation by self-assembly of ABC miktoarm star terpolymer in dilute solution. Soft Matter, 2012, 8, 11462.	2.7	18
29	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
30	Aliphatic tertiary amine mediated synthesis of highly branched polylactide copolymers. Polymer, 2012, 53, 719-727.	3.8	14
31	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
32	Computer simulation of formation of polymeric ultrafiltration membrane via immersion precipitation. Journal of Membrane Science, 2011, 371, 108-116.	8.2	33
33	Diffusion-limited hyperbranched polymers with substitution effect. Journal of Chemical Physics, 2011, 134, 104901.	3.0	14
34	Phase transition of a single star polymer: A Wang-Landau sampling study. Journal of Chemical Physics, 2011, 135, 094902.	3.0	14
35	Kinetics of nonideal hyperbranched A₂+ B₃polycondensation: Simulation and comparison with experiments. Journal of Polymer Science Part A, 2010, 48, 5072-5082.	2.3	7
36	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

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37	Dynamics of vesicle formation from lipid droplets: Mechanism and controllability. Journal of Chemical Physics, 2009, 130, 094905.	3.0	29
38	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
39	Developing Coarse-Grained Force Fields for PNIPAM Single Chain from the Atomistic Model. , 2009, , .		2
40	Kinetics of selfâ€condensing vinyl hyperbranched polymerization in threeâ€dimensional space. Journal of Polymer Science Part A, 2008, 46, 4486-4494.	2.3	16
41	Spontaneous Formation of Complex Micelles from a Homogeneous Solution. Physical Review Letters, 2008, 100, 137802.	7.8	128
42	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
43	Dynamics of Spontaneous Vesicle Formation in Dilute Solutions of Amphiphilic Diblock Copolymers. Macromolecules, 2006, 39, 2654-2662.	4.8	112
44	Using Prenucleation To Control Complex Copolymeric Vesicle Formation in Solution. Macromolecules, 2006, 39, 8908-8910.	4.8	18
45	Interface Structure between Immiscible Reactive Polymers under Transreaction: a Monte Carlo Simulation. Macromolecular Theory and Simulations, 2005, 14, 305-311.	1.4	14
46	Ordered microstructures by assembly of ABC 3-miktoarm star terpolymers and linear homopolymers. Journal of Chemical Physics, 2004, 121, 9702-9707.	3.0	13
47	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
48	Complex Microstructures of Amphiphilic Diblock Copolymer in Dilute Solution. Journal of Physical Chemistry B, 2004, 108, 1731-1735.	2.6	70
49	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
50	Computer simulation on the self-assembly of associating polymers. Polymer, 2003, 44, 1967-1972.	3.8	4
51	Phase transitions of short chains at ultralow temperature. Journal of Chemical Physics, 2003, 119, 2432-2438.	3.0	8
52	Localizations of junction points of ABC 3-miktoarm star terpolymers. Journal of Chemical Physics, 2003, 118, 9861-9863.	3.0	44
53	A cunning strategy in design of polymeric nanomaterials with novel microstructures. Journal of Chemical Physics, 2003, 119, 12479-12486.	3.0	8
54	Self-assembly of star block copolymers by dynamic density functional theory. Journal of Chemical Physics, 2002, 116, 10508-10513.	3.0	30

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55	Possibility of Design of Nanodevices by Confined Macromolecular Self-Assembly. Macromolecular Theory and Simulations, 2002, 11, 379.	1.4	16
56	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
57	Monte Carlo Simulation of Hyperbranched Copolymerizations in the Presence of a Multifunctional Initiator. Macromolecular Theory and Simulations, 2001, 10, 196-203.	1.4	49
58	Monte Carlo simulation of morphologies of self-assembled amphiphilic diblock copolymers in solution. Physical Review E, 2001, 63, 031804.	2.1	14
59	Monte Carlo simulation of pulsed-laser polymerization in emulsion. European Polymer Journal, 2000, 36, 2527-2530.	5.4	3
60	Monte Carlo simulation for the modification of polymer via grafting. European Polymer Journal, 2000, 36, 1613-1617.	5.4	15
61	Monte Carlo simulation of phase separation of A/B/A-B ternary mixtures. Macromolecular Theory and Simulations, 1999, 8, 173-178.	1.4	8