

Wen-Sheng Xu

List of Publications by Year in descending order

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times ranked

643
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Cohesive Energy on the Thermodynamic Properties of a Model Glass-Forming Polymer Melt. <i>Macromolecules</i> , 2016, 49, 8341-8354.	4.8	65
2	Influence of Cohesive Energy and Chain Stiffness on Polymer Glass Formation. <i>Macromolecules</i> , 2014, 47, 6990-6997.	4.8	61
3	Influence of Cohesive Energy on Relaxation in a Model Glass-Forming Polymer Melt. <i>Macromolecules</i> , 2016, 49, 8355-8370.	4.8	60
4	Energy renormalization for coarse-graining polymers having different segmental structures. <i>Science Advances</i> , 2019, 5, eaav4683.	10.3	58
5	Molecular Dynamics Investigation of the Relaxation Mechanism of Entangled Polymers after a Large Step Deformation. <i>ACS Macro Letters</i> , 2018, 7, 190-195.	4.8	39
6	Polymer Glass Formation: Role of Activation Free Energy, Configurational Entropy, and Collective Motion. <i>Macromolecules</i> , 2021, 54, 3001-3033.	4.8	38
7	Molecular Dynamics Study of Glass Formation in Polymer Melts with Varying Chain Stiffness. <i>Macromolecules</i> , 2020, 53, 4796-4809.	4.8	36
8	Lattice cluster theory for polymer melts with specific interactions. <i>Journal of Chemical Physics</i> , 2014, 141, 044909.	3.0	34
9	Influence of Pressure on Glass Formation in a Simulated Polymer Melt. <i>Macromolecules</i> , 2017, 50, 2585-2598.	4.8	34
10	Hard ellipses: Equation of state, structure, and self-diffusion. <i>Journal of Chemical Physics</i> , 2013, 139, 024501.	3.0	33
11	Generalized entropy theory of glass-formation in fully flexible polymer melts. <i>Journal of Chemical Physics</i> , 2016, 145, 234509.	3.0	30
12	Universal nature of dynamic heterogeneity in glass-forming liquids: A comparative study of metallic and polymeric glass-forming liquids. <i>Journal of Chemical Physics</i> , 2019, 151, 184503.	3.0	30
13	Generalized Entropy Theory of Glass Formation in Polymer Melts with Specific Interactions. <i>Macromolecules</i> , 2015, 48, 2333-2343.	4.8	29
14	Heterogeneous crystallization of hard spheres on patterned substrates. <i>Journal of Chemical Physics</i> , 2010, 132, 144506.	3.0	28
15	Equation of State and Entropy Theory Approach to Thermodynamic Scaling in Polymeric Glass-Forming Liquids. <i>Macromolecules</i> , 2021, 54, 3247-3269.	4.8	28
16	Role of Cohesive Energy in Glass Formation of Polymers with and without Bending Constraints. <i>Macromolecules</i> , 2020, 53, 9678-9697.	4.8	28
17	Understanding Activation Volume in Glass-Forming Polymer Melts via Generalized Entropy Theory. <i>Macromolecules</i> , 2020, 53, 7239-7252.	4.8	24
18	Influence of Side-Chain Length and Relative Rigidities of Backbone and Side Chains on Glass Formation of Branched Polymers. <i>Macromolecules</i> , 2021, 54, 6327-6341.	4.8	23

#	ARTICLE	IF	CITATIONS
19	Thermodynamics and Reaction Kinetics of Symmetric Vitrimers Based on Dioxaborolane Metathesis. <i>Macromolecules</i> , 2021, 54, 6799-6809.	4.8	23
20	Stringlike Cooperative Motion Explains the Influence of Pressure on Relaxation in a Model Glass-Forming Polymer Melt. <i>ACS Macro Letters</i> , 2016, 5, 1375-1380.	4.8	22
21	Thermodynamic scaling of dynamics in polymer melts: Predictions from the generalized entropy theory. <i>Journal of Chemical Physics</i> , 2013, 138, 234501.	3.0	21
22	Investigation of the Temperature Dependence of Activation Volume in Glass-Forming Polymer Melts under Variable Pressure Conditions. <i>Macromolecules</i> , 2020, 53, 6828-6841.	4.8	21
23	Effect of attractions on correlation length scales in a glass-forming liquid. <i>Physical Review E</i> , 2012, 86, 041506.	2.1	18
24	Effects of Chain Rigidity on the Adsorption of a Polyelectrolyte Chain on Mixed Lipid Monolayer: A Monte Carlo Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6041-6049.	2.6	15
25	Scaling Behavior of Anisotropy Relaxation in Deformed Polymers. <i>Physical Review Letters</i> , 2018, 121, 117801.	7.8	13
26	Relaxation dynamics in a binary hard-ellipse liquid. <i>Soft Matter</i> , 2015, 11, 627-634.	2.7	12
27	Influence of Ionic Interaction Strength on Glass Formation of an Ion-Containing Polymer Melt. <i>Macromolecules</i> , 2021, 54, 9587-9601.	4.8	12
28	Growing point-to-set length scales in Lennard-Jones glass-forming liquids. <i>Journal of Chemical Physics</i> , 2014, 140, 124502.	3.0	10
29	Dense packing in the monodisperse hard-sphere system: A numerical study. <i>European Physical Journal E</i> , 2010, 31, 377-382.	1.6	9
30	Melt Properties and String Model Description of Glass Formation in Graft Polymers of Different Side-Chain Lengths. <i>Macromolecules</i> , 2022, 55, 3221-3235.	4.8	9
31	Dynamics and correlation length scales of a glass-forming liquid in quiescent and sheared conditions. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 325101.	1.8	7
32	Structure, compressibility factor, and dynamics of highly size-asymmetric binary hard-disk liquids. <i>Journal of Chemical Physics</i> , 2012, 137, 104509.	3.0	7
33	Glass formation in a mixture of hard disks and hard ellipses. <i>Journal of Chemical Physics</i> , 2015, 142, 224506.	3.0	7
34	Effects of Concentration and Ionization Degree of Anchoring Cationic Polymers on the Lateral Heterogeneity of Anionic Lipid Monolayers. <i>Journal of Physical Chemistry B</i> , 2017, 121, 984-994.	2.6	7
35	Adsorption of a hydrophobic cationic polypeptide onto acidic lipid membrane. <i>Polymer</i> , 2017, 122, 125-138.	3.8	7
36	Energy Renormalization for Coarse-Graining Polymers with Different Fragilities: Predictions from the Generalized Entropy Theory. <i>Macromolecular Theory and Simulations</i> , 2020, 29, 1900051.	1.4	7

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37	Diffusive redistribution of small spheres in crystallization of highly asymmetric binary hard-sphere mixtures. <i>Europhysics Letters</i> , 2012, 97, 66007.	2.0	4
38	Lattice model of linear telechelic polymer melts. I. Inclusion of chain semiflexibility in the lattice cluster theory. <i>Journal of Chemical Physics</i> , 2015, 143, 024901.	3.0	4
39	Lattice model of linear telechelic polymer melts. II. Influence of chain stiffness on basic thermodynamic properties. <i>Journal of Chemical Physics</i> , 2015, 143, 024902.	3.0	3
40	Spatial Rearrangement and Mobility Heterogeneity of an Anionic Lipid Monolayer Induced by the Anchoring of Cationic Semiflexible Polymer Chains. <i>Polymers</i> , 2016, 8, 235.	4.5	3
41	Monte Carlo study on a complex of cationic polymers and anionic lipid monolayer. <i>Polymer</i> , 2016, 104, 138-148.	3.8	3
42	Self-assembly and glass-formation in a lattice model of telechelic polymer melts: Influence of stiffness of the sticky bonds. <i>Journal of Chemical Physics</i> , 2016, 144, 214903.	3.0	2
43	Stress-Structure Relationship of the Reversible Associating Polymer Network under Start-up Shear Flow. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 387-396.	3.8	2
44	Molecular Dynamics Study of Star Polymer Melts under Start-up Shear. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022, 40, 807-816.	3.8	2
45	Assembly of body-centered cubic crystals in hard spheres. <i>European Physical Journal E</i> , 2011, 34, 47.	1.6	1