

Wen-Sheng Xu

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

951
citations

331670

21
h-index

454955

30
g-index

47
all docs

47
docs citations

47
times ranked

643
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Dynamics Study of Star Polymer Melts under Start-up Shear. Chinese Journal of Polymer Science (English Edition), 2022, 40, 807-816.	3.8	2
2	Melt Properties and String Model Description of Glass Formation in Graft Polymers of Different Side-Chain Lengths. Macromolecules, 2022, 55, 3221-3235.	4.8	9
3	Stress-Structure Relationship of the Reversible Associating Polymer Network under Start-up Shear Flow. Chinese Journal of Polymer Science (English Edition), 2021, 39, 387-396.	3.8	2
4	Polymer Glass Formation: Role of Activation Free Energy, Configurational Entropy, and Collective Motion. Macromolecules, 2021, 54, 3001-3033.	4.8	38
5	Equation of State and Entropy Theory Approach to Thermodynamic Scaling in Polymeric Glass-Forming Liquids. Macromolecules, 2021, 54, 3247-3269.	4.8	28
6	Influence of Side-Chain Length and Relative Rigidities of Backbone and Side Chains on Glass Formation of Branched Polymers. Macromolecules, 2021, 54, 6327-6341.	4.8	23
7	Thermodynamics and Reaction Kinetics of Symmetric Vitrimers Based on Dioxaborolane Metathesis. Macromolecules, 2021, 54, 6799-6809.	4.8	23
8	Influence of Ionic Interaction Strength on Glass Formation of an Ion-Containing Polymer Melt. Macromolecules, 2021, 54, 9587-9601.	4.8	12
9	Energy Renormalization for Coarse-Graining Polymers with Different Fragilities: Predictions from the Generalized Entropy Theory. Macromolecular Theory and Simulations, 2020, 29, 1900051.	1.4	7
10	Investigation of the Temperature Dependence of Activation Volume in Glass-Forming Polymer Melts under Variable Pressure Conditions. Macromolecules, 2020, 53, 6828-6841.	4.8	21
11	Understanding Activation Volume in Glass-Forming Polymer Melts via Generalized Entropy Theory. Macromolecules, 2020, 53, 7239-7252.	4.8	24
12	Molecular Dynamics Study of Glass Formation in Polymer Melts with Varying Chain Stiffness. Macromolecules, 2020, 53, 4796-4809.	4.8	36
13	Role of Cohesive Energy in Glass Formation of Polymers with and without Bending Constraints. Macromolecules, 2020, 53, 9678-9697.	4.8	28
14	Energy renormalization for coarse-graining polymers having different segmental structures. Science Advances, 2019, 5, eaav4683.	10.3	58
15	Universal nature of dynamic heterogeneity in glass-forming liquids: A comparative study of metallic and polymeric glass-forming liquids. Journal of Chemical Physics, 2019, 151, 184503.	3.0	30
16	Molecular Dynamics Investigation of the Relaxation Mechanism of Entangled Polymers after a Large Step Deformation. ACS Macro Letters, 2018, 7, 190-195.	4.8	39
17	Scaling Behavior of Anisotropy Relaxation in Deformed Polymers. Physical Review Letters, 2018, 121, 117801.	7.8	13
18	Effects of Concentration and Ionization Degree of Anchoring Cationic Polymers on the Lateral Heterogeneity of Anionic Lipid Monolayers. Journal of Physical Chemistry B, 2017, 121, 984-994.	2.6	7

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19	Influence of Pressure on Glass Formation in a Simulated Polymer Melt. <i>Macromolecules</i> , 2017, 50, 2585-2598.	4.8	34
20	Adsorption of a hydrophobic cationic polypeptide onto acidic lipid membrane. <i>Polymer</i> , 2017, 122, 125-138.	3.8	7
21	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
22	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
23	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
24	Generalized entropy theory of glass-formation in fully flexible polymer melts. <i>Journal of Chemical Physics</i> , 2016, 145, 234509.	3.0	30
25	Monte Carlo study on a complex of cationic polymers and anionic lipid monolayer. <i>Polymer</i> , 2016, 104, 138-148.	3.8	3
26	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
27	Influence of Cohesive Energy on Relaxation in a Model Glass-Forming Polymer Melt. <i>Macromolecules</i> , 2016, 49, 8355-8370.	4.8	60
28	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
29	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
30	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
31	Generalized Entropy Theory of Glass Formation in Polymer Melts with Specific Interactions. <i>Macromolecules</i> , 2015, 48, 2333-2343.	4.8	29
32	Glass formation in a mixture of hard disks and hard ellipses. <i>Journal of Chemical Physics</i> , 2015, 142, 224506.	3.0	7
33	Relaxation dynamics in a binary hard-ellipse liquid. <i>Soft Matter</i> , 2015, 11, 627-634.	2.7	12
34	Growing point-to-set length scales in Lennard-Jones glass-forming liquids. <i>Journal of Chemical Physics</i> , 2014, 140, 124502.	3.0	10
35	Lattice cluster theory for polymer melts with specific interactions. <i>Journal of Chemical Physics</i> , 2014, 141, 044909.	3.0	34
36	Influence of Cohesive Energy and Chain Stiffness on Polymer Glass Formation. <i>Macromolecules</i> , 2014, 47, 6990-6997.	4.8	61

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37	Hard ellipses: Equation of state, structure, and self-diffusion. <i>Journal of Chemical Physics</i> , 2013, 139, 024501.	3.0	33
38	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
39	Diffusive redistribution of small spheres in crystallization of highly asymmetric binary hard-sphere mixtures. <i>Europhysics Letters</i> , 2012, 97, 66007.	2.0	4
40	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
41	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
42	Effect of attractions on correlation length scales in a glass-forming liquid. <i>Physical Review E</i> , 2012, 86, 041506.	2.1	18
43	Assembly of body-centered cubic crystals in hard spheres. <i>European Physical Journal E</i> , 2011, 34, 47.	1.6	1
44	Dense packing in the monodisperse hard-sphere system: A numerical study. <i>European Physical Journal E</i> , 2010, 31, 377-382.	1.6	9
45	Heterogeneous crystallization of hard spheres on patterned substrates. <i>Journal of Chemical Physics</i> , 2010, 132, 144506.	3.0	28