

# Polymer Free Volume and Its Connection to the Glass T

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Dynamics of Polyether Polyols and Polyether Carbonate Polyols. <i>Macromolecules</i> , 2016, 49, 8995-9003.	2.2	34
2	Class transition of polymers in bulk, confined geometries, and near interfaces. <i>Reports on Progress in Physics</i> , 2017, 80, 036602.	8.1	315
3	Physicochemical and tribophysical properties of trioctylalkylammonium bis(salicylato)borate (N888n-BScB) ionic liquids: effect of alkyl chain length. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6433-6442.	1.3	50
4	Unexpected impact of irreversible adsorption on thermal expansion: Adsorbed layers are not that dead. <i>Journal of Chemical Physics</i> , 2017, 146, 203304.	1.2	39
5	How Free Volume Does Influence the Dynamics of Glass Forming Liquids. <i>ACS Macro Letters</i> , 2017, 6, 529-534.	2.3	42
6	Intrinsically Hierarchical Nanoporous Polymers via Polymerization-Induced Microphase Separation. <i>Macromolecules</i> , 2017, 50, 4363-4371.	2.2	25
7	Biocompatible Shape Memory Blend for Self-Expandable Stents with Potential Biomedical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 13988-13998.	4.0	63
8	Irreversible Adsorption Erases the Free Surface Effect on the $T_g$ of Supported Films of Poly(4- <i>tert</i> -butylstyrene). <i>ACS Macro Letters</i> , 2017, 6, 354-358.	2.3	91
9	Partially bio-based poly(amide imide)s by polycondensation of aromatic diacylhydrazides based on lignin-derived phenolic acids and aromatic dianhydrides: Synthesis, characterization, and computational studies. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3636-3645.	2.5	15
10	A theoretical interpretation of free volume at glass transition. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 1415-1427.	2.0	6
11	Resolving and Controlling Photoinduced Ultrafast Solvation in the Solid State. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4183-4190.	2.1	18
12	Irreversible Adsorption Governs the Equilibration of Thin Polymer Films. <i>Physical Review Letters</i> , 2017, 119, 097801.	2.9	69
13	Evolution of Microphase Separation with Variations of Segments of Sequence-Controlled Multiblock Copolymers. <i>Macromolecules</i> , 2017, 50, 7380-7387.	2.2	44
14	Kovalent gebundene, ineinander verkettete Cyclohexa- <i>m</i> -phenylene und ihre Selbstorganisation: Auf dem Weg zu supramolekularen 3D-Kohlenstoffnanostrukturen. <i>Angewandte Chemie</i> , 2017, 129, 10738-10742.	1.6	1
15	Covalently Interlocked Cyclohexa- <i>m</i> -phenylenes and Their Assembly: En Route to Supramolecular 3D Carbon Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10602-10606.	7.2	8
16	The glass transition temperatures of amorphous linear aliphatic polyesters. <i>Polymer</i> , 2017, 124, 235-245.	1.8	9
17	Pressure and molecular-weight dependences of elastic properties of polystyrene polymers studied by Brillouin spectroscopy. <i>Current Applied Physics</i> , 2017, 17, 1396-1400.	1.1	5
18	Steric effect on $Li^{+}$ coordination and transport properties in polyoxetane-based polymer electrolytes bearing nitrile groups. <i>RSC Advances</i> , 2017, 7, 37975-37982.	1.7	20

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19	Re-examining the procedure for simulating polymer Tg using molecular dynamics. Journal of Molecular Modeling, 2017, 23, 270.	0.8	14
20	Temperature dependence of dynamic and mechanical properties in poly(acrylic acid)/graphene oxide nanocomposites. Materials Today Communications, 2017, 13, 359-366.	0.9	14
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23	Evidence of a Transition Layer between the Free Surface and the Bulk. Journal of Physical Chemistry Letters, 2018, 9, 1195-1199.	2.1	17
24	Effect of a Hybrid Zinc Stearate-Silver System on the Properties of Polylactide and Its Abiotic and the Biotic Degradation and Antimicrobial Activity Thereof. Chinese Journal of Polymer Science (English) Tj ETQq1 1 0.784614 rgB3 /Overlock	1.4	14
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26	Interpretation of the Vibrational Spectra of Glassy Polymers Using Coarse-Grained Simulations. Macromolecules, 2018, 51, 1559-1572.	2.2	25
27	Swelling and Free-Volume Characteristics of TEMPO-Oxidized Cellulose Nanofibril Films. Biomacromolecules, 2018, 19, 1016-1025.	2.6	36
28	Dependences of Confining Size and Interfacial Curvature on the Glass Transition of Polydimethylsiloxane in Self-Assembled Block Copolymers. Macromolecular Chemistry and Physics, 2018, 219, 1700518.	1.1	1
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36	Moth-eye antireflection nanostructure on glass for CubeSats. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, .	0.6	5

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40	Interrelation between mechanical response, strain field, and local free volume evolution in glassy polymers: Seeking the atomistic origin of post-yield softening. <i>EXPRESS Polymer Letters</i> , 2018, 12, 2-12.	1.1	6
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47	Unraveling substituent effects on the glass transition temperatures of biorenewable polyesters. <i>Nature Communications</i> , 2018, 9, 2880.	5.8	58
48	Gas Separation Properties of Polyimide Thin Films on Ceramic Supports for High Temperature Applications. <i>Membranes</i> , 2018, 8, 16.	1.4	28
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50	Ultra Gas-Proof Polymer Hybrid Thin Layer. <i>Nano Letters</i> , 2018, 18, 5461-5466.	4.5	32
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56	Cooperativity Scaling and Free Volume in Plasticized Polylactide. <i>Macromolecules</i> , 2019, 52, 6107-6115.	2.2	17
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