Ronald P White

List of Publications by Year
in descending order

28 papers	967 citations	471509 17 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	1073 citing authors

#	Article	IF	Citations
1	Experimental and Modeling Comparison of the Dynamics of Capped and Freestanding Poly(2-chlorostyrene) Films. ACS Macro Letters, 2022, 11, 91-95.	4.8	2
2	Dynamics across a Free Surface Reflect Interplay between Density and Cooperative Length: Application to Polystyrene. Macromolecules, 2021, 54, 4136-4144.	4.8	8
3	A Simple New Way To Account for Free Volume in Glassy Dynamics: Model-Free Estimation of the Close-Packed Volume from PVT Data. Journal of Physical Chemistry B, 2021, 125, 4221-4231.	2.6	7
4	The dynamics of freestanding films: predictions for poly(2-chlorostyrene) based on bulk pressure dependence and thoughtful sample averaging. Soft Matter, 2021, 17, 9755-9764.	2.7	4
5	Thermodynamics of Model PÎ±MSAN/dPMMA Blend: A Combined Study by SANS, Ellipsometry, and Locally Correlated Lattice (LCL) Theory. Macromolecules, 2020, 53, 7084-7095.	4.8	5
6	To Understand Film Dynamics Look to the Bulk. Physical Review Letters, 2020, 125, 058002.	7.8	22
7	Substrate Roughness Speeds Up Segmental Dynamics of Thin Polymer Films. Physical Review Letters, 2020, 124, 027802.	7.8	33
8	The cooperative free volume rate model for segmental dynamics: Application to glass-forming liquids and connections with the density scaling approachâ‹†. European Physical Journal E, 2019, 42, 100.	1.6	19
9	COOPERATIVE FREE VOLUME RATE MODEL APPLIED TO THE PRESSURE-DEPENDENT SEGMENTAL DYNAMICS OF NATURAL RUBBER AND POLYUREA. Rubber Chemistry and Technology, 2019, 92, 612-624.	1.2	3
10	Experimental Test of the Cooperative Free Volume Rate Model under 1D Confinement: The Interplay of Free Volume, Temperature, and Polymer Film Thickness in Driving Segmental Mobility. ACS Macro Letters, 2019, 8, 41-45.	4.8	31
11	Connecting Pressure-Dependent Dynamics to Dynamics under Confinement: The Cooperative Free Volume Model Applied to Poly(4-chlorostyrene) Bulk and Thin Films. Macromolecules, 2018, 51, 7924-7941.	4.8	32
12	Pressure-Dependent Dynamics of Polymer Melts from Arrhenius to Non-Arrhenius: The Cooperative Free Volume Rate Equation Tested against Simulation Data. Macromolecules, 2018, 51, 4896-4909.	4.8	17
13	How Free Volume Does Influence the Dynamics of Glass Forming Liquids. ACS Macro Letters, 2017, 6, 529-534.	4.8	42
14	Explaining the T,V-dependent dynamics of glass forming liquids: The cooperative free volume model tested against new simulation results. Journal of Chemical Physics, 2017, 147, 184503.	3.0	36
15	Polymer Free Volume and Its Connection to the Glass Transition. Macromolecules, 2016, 49, 3987-4007.	4.8	331
16	Effect of Interfaces on the Glass Transition of Supported and Freestanding Polymer Thin Films. Macromolecules, 2015, 48, 4132-4141.	4.8	73
17	Free Volume in the Melt and How It Correlates with Experimental Glass Transition Temperatures: Results for a Large Set of Polymers. ACS Macro Letters, 2015, 4, 588-592.	4.8	38
18	Connecting Theory and Experiment To Understand Miscibility in Polymer and Small Molecule Mixtures. Journal of Chemical & Engineering Data, 2014, 59, 3289-3300.	1.9	22

#	Article	IF	Citations
19	Free Volume, Cohesive Energy Density, and Internal Pressure as Predictors of Polymer Miscibility. Macromolecules, 2014, 47, 3959-3968.	4.8	38
20	Origins of Unusual Phase Behavior in Polymer/Ionic Liquid Solutions. Macromolecules, 2013, 46, 5714-5723.	4.8	29
21	How Pure Components Control Polymer Blend Miscibility. Macromolecules, 2012, 45, 8861-8871.	4.8	33
22	New Correlations in Polymer Blend Miscibility. Macromolecules, 2012, 45, 1076-1084.	4.8	39
23	Thermodynamic treatment of polymer thin-film glasses. Physical Review E, 2011, 84, 041801.	2.1	32
24	Effect of Deuterium Substitution on the Physical Properties of Polymer Melts and Blends. Macromolecules, 2010, 43, 4287-4293.	4.8	40
25	Fluid mixtures: Contrasts of theoretical and simulation approaches, and comparison with experimental alkane properties. Journal of Chemical Physics, 2009, 131, 074110.	3.0	9
26	Chain fluids: Contrasts of theoretical and simulation approaches, and comparison with experimental alkane properties. Journal of Chemical Physics, 2009, 131, 074109.	3.0	12
27	A continuum integral equation approach for fluid mixtures of flexible hard-sphere chain molecules. Molecular Physics, 2008, 106, 729-744.	1.7	3
28	Square-well mixtures: a study of their coexistence using theory and simulation. Molecular Physics, 2007, 105, 1983-1997.	1.7	7