

Jane E g Lipson

List of Publications by Citations

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44
papers

1,212
citations

23
h-index

34
g-index

46
ext. papers

1,344
ext. citations

4.6
avg, IF

5.33
L-index

#	Paper	IF	Citations
44	Polymer Free Volume and Its Connection to the Glass Transition. <i>Macromolecules</i> , 2016 , 49, 3987-4007	5.5	224
43	Effect of Interfaces on the Glass Transition of Supported and Freestanding Polymer Thin Films. <i>Macromolecules</i> , 2015 , 48, 4132-4141	5.5	70
42	A simple approach to polymer mixture miscibility. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 1009-25	3	62
41	Local and Average Glass Transitions in Polymer Thin Films. <i>Macromolecules</i> , 2010 , 43, 9874-9880	5.5	57
40	Modeling the Segmental Relaxation Time Distribution of Miscible Polymer Blends: Polyisoprene/Poly(vinylethylene). <i>Macromolecules</i> , 2005 , 38, 4919-4928	5.5	50
39	Lattice model of mobility at interfaces: free surfaces, substrates, and bilayers. <i>Soft Matter</i> , 2013 , 9, 9403-6	3.6	49
38	Effect of Deuterium Substitution on the Physical Properties of Polymer Melts and Blends. <i>Macromolecules</i> , 2010 , 43, 4287-4293	5.5	39
37	Delayed Glassification Model for Free-Surface Suppression of T _g in Polymer Glasses. <i>Macromolecules</i> , 2010 , 43, 9865-9873	5.5	37
36	Free Volume, Cohesive Energy Density, and Internal Pressure as Predictors of Polymer Miscibility. <i>Macromolecules</i> , 2014 , 47, 3959-3968	5.5	35
35	New Correlations in Polymer Blend Miscibility. <i>Macromolecules</i> , 2012 , 45, 1076-1084	5.5	34
34	Lattice model of dynamic heterogeneity and kinetic arrest in glass-forming liquids. <i>Soft Matter</i> , 2013 , 9, 3173	3.6	33
33	Multiple glass transitions and local composition effects on polymer solvent mixtures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 3528-3545	2.6	33
32	Free Volume in the Melt and How It Correlates with Experimental Glass Transition Temperatures: Results for a Large Set of Polymers. <i>ACS Macro Letters</i> , 2015 , 4, 588-592	6.6	31
31	Thermodynamic treatment of polymer thin-film glasses. <i>Physical Review E</i> , 2011 , 84, 041801	2.4	31
30	How Free Volume Does Influence the Dynamics of Glass Forming Liquids. <i>ACS Macro Letters</i> , 2017 , 6, 529-534	6.6	30
29	How Pure Components Control Polymer Blend Miscibility. <i>Macromolecules</i> , 2012 , 45, 8861-8871	5.5	30
28	Self-Assembly of Lamellar Microphases in Linear Gradient Copolymer Melts. <i>Macromolecules</i> , 2010 , 43, 10612-10620	5.5	27

27	Studies on fluids and their mixtures using the Born-Green-Yvon integral equation technique. <i>Macromolecular Theory and Simulations</i> , 1998 , 7, 263-282	1.5	27
26	Substrate Roughness Speeds Up Segmental Dynamics of Thin Polymer Films. <i>Physical Review Letters</i> , 2020 , 124, 027802	7.4	26
25	Explaining the T,V-dependent dynamics of glass forming liquids: The cooperative free volume model tested against new simulation results. <i>Journal of Chemical Physics</i> , 2017 , 147, 184503	3.9	25
24	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. <i>ACS Macro Letters</i> , 2019 , 8, 41-45	6.6	25
23	Connecting Pressure-Dependent Dynamics to Dynamics under Confinement: The Cooperative Free Volume Model Applied to Poly(4-chlorostyrene) Bulk and Thin Films. <i>Macromolecules</i> , 2018 , 51, 7924-7941	5.5	25
22	Origins of Unusual Phase Behavior in Polymer/Ionic Liquid Solutions. <i>Macromolecules</i> , 2013 , 46, 5714-5723	3.5	24
21	Simulating Local Tg Reporting Layers in Glassy Thin Films. <i>Macromolecules</i> , 2016 , 49, 1822-1833	5.5	20
20	Connecting Theory and Experiment To Understand Miscibility in Polymer and Small Molecule Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 3289-3300	2.8	20
19	Correlations between the Effects of Pressure and Molecular Weight on Polymer Blend Miscibility. <i>Macromolecules</i> , 2003 , 36, 2977-2984	5.5	20
18	To Understand Film Dynamics Look to the Bulk. <i>Physical Review Letters</i> , 2020 , 125, 058002	7.4	14
17	Pressure-Dependent Dynamics of Polymer Melts from Arrhenius to Non-Arrhenius: The Cooperative Free Volume Rate Equation Tested against Simulation Data. <i>Macromolecules</i> , 2018 , 51, 4896-4909	5.5	13
16	Polymer Miscibility in Supercritical Carbon Dioxide: Free Volume as a Driving Force. <i>Macromolecules</i> , 2014 , 47, 5643-5654	5.5	13
15	The cooperative free volume rate model for segmental dynamics: Application to glass-forming liquids and connections with the density scaling approach. <i>European Physical Journal E</i> , 2019 , 42, 100	1.5	12
14	Chain fluids: contrasts of theoretical and simulation approaches, and comparison with experimental alkane properties. <i>Journal of Chemical Physics</i> , 2009 , 131, 074109	3.9	12
13	New Routes to the Characterization and Prediction of Polymer Blend Properties. <i>Macromolecules</i> , 2004 , 37, 9219-9230	5.5	12
12	Fluid mixtures: contrasts of theoretical and simulation approaches, and comparison with experimental alkane properties. <i>Journal of Chemical Physics</i> , 2009 , 131, 074110	3.9	9
11	Enhanced diffusion and mobile fronts in a simple lattice model of glass-forming liquids. <i>Soft Matter</i> , 2015 , 11, 7792-801	3.6	8
10	Square-well mixtures: a study of their coexistence using theory and simulation. <i>Molecular Physics</i> , 2007 , 105, 1983-1997	1.7	6

9	Ball-of-Yarn Conformation of a Linear Gradient Copolymer in a Homopolymer Melt. <i>Macromolecules</i> , 2012 , 45, 7607-7620	5.5	5
8	A Simple New Way To Account for Free Volume in Glassy Dynamics: Model-Free Estimation of the Close-Packed Volume from Data. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4221-4231	3.4	5
7	Different metrics for connecting mobility and glassiness in thin films. <i>Soft Matter</i> , 2019 , 15, 1651-1657	3.6	4
6	Dynamics across a Free Surface Reflect Interplay between Density and Cooperative Length: Application to Polystyrene. <i>Macromolecules</i> , 2021 , 54, 4136-4144	5.5	3
5	COOPERATIVE FREE VOLUME RATE MODEL APPLIED TO THE PRESSURE-DEPENDENT SEGMENTAL DYNAMICS OF NATURAL RUBBER AND POLYUREA. <i>Rubber Chemistry and Technology</i> , 2019 , 92, 612-624 ^{1.7}		3
4	The influence of additives on polymer matrix mobility and the glass transition. <i>Soft Matter</i> , 2021 , 17, 376-387	3.6	3
3	The dynamics of freestanding films: predictions for poly(2-chlorostyrene) based on bulk pressure dependence and thoughtful sample averaging. <i>Soft Matter</i> , 2021 , 17, 9755-9764	3.6	2
2	Thermodynamics of Model PMSAN/dPMMA Blend: A Combined Study by SANS, Ellipsometry, and Locally Correlated Lattice (LCL) Theory. <i>Macromolecules</i> , 2020 , 53, 7084-7095	5.5	2
1	Experimental and Modeling Comparison of the Dynamics of Capped and Freestanding Poly(2-chlorostyrene) Films.. <i>ACS Macro Letters</i> , 2022 , 11, 91-95	6.6	0