

Craig Burkhart

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25
papers

483
citations

12
h-index

21
g-index

26
ext. papers

607
ext. citations

3.9
avg, IF

3.66
L-index

#	Paper	IF	Citations
25	Polybutadiene Copolymers via Atomistic and Systematic Coarse-Grained Simulations. <i>Macromolecules</i> , 2022 , 55, 224-240	5.5	1
24	Data-Driven Multiscale Science for Tire Compounding: Methods and Future Directions. <i>Springer Series in Materials Science</i> , 2021 , 281-312	0.9	1
23	Tailoring Interfacial Properties in Polymer/Silica Nanocomposites via Surface Modification: An Atomistic Simulation Study. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2576-2587	4.3	4
22	Dynamics and Rheology of Polymer Melts via Hierarchical Atomistic, Coarse-Grained, and Slip-Spring Simulations. <i>Macromolecules</i> , 2021 , 54, 2740-2762	5.5	12
21	Coupling between Polymer Conformations and Dynamics Near Amorphous Silica Surfaces: A Direct Insight from Atomistic Simulations. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
20	Dynamics of Long Entangled Polyisoprene Melts via Multiscale Modeling. <i>Macromolecules</i> , 2021 , 54, 8693-8713	3.8	13
19	Conformations and Dynamics of Polymer Chains in Cis and Trans Polybutadiene/Silica Nanocomposites through Atomistic Simulations: From the Unentangled to the Entangled Regime. <i>Macromolecules</i> , 2020 , 53, 6173-6189	5.5	17
18	Backmapping coarse-grained macromolecules: An efficient and versatile machine learning approach. <i>Journal of Chemical Physics</i> , 2020 , 153, 041101	3.9	19
17	Validation of quartz crystal rheometry in the megahertz frequency regime. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 1246-1254	2.6	12
16	Application of In-situ TEM Nanoscale Quantitative Mechanical Testing to Elastomers. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1524-1525	0.5	
15	Computational analysis of particle reinforced viscoelastic polymer nanocomposites: A statistical study of representative volume element. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 114, 55-74	5	18
14	A Transfer Learning Approach for Microstructure Reconstruction and Structure-property Predictions. <i>Scientific Reports</i> , 2018 , 8, 13461	4.9	54
13	Measuring interphase stiffening effects in styrene-based polymeric thin films. <i>Polymer</i> , 2015 , 75, 161-167	3.9	19
12	Determination of the viscoelastic interfacial properties between silica and SNR-based materials via a semi-empirical approach. <i>Mechanics of Materials</i> , 2015 , 80, 1-12	3.3	1
11	Multiscale modeling of polyisoprene on graphite. <i>Journal of Chemical Physics</i> , 2014 , 140, 054908	3.9	53
10	Descriptor-based methodology for statistical characterization and 3D reconstruction of microstructural materials. <i>Computational Materials Science</i> , 2014 , 85, 206-216	3.2	101
9	Interfacial Properties of Carbon/Rubber Interfaces Investigated via Indentation Pull-Out Tests and the JKR Theory. <i>Tribology Letters</i> , 2013 , 52, 155-161	2.8	1

8	Stochastic Reassembly Strategy for Managing Information Complexity in Heterogeneous Materials Analysis and Design. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2013 , 135,	3	22
7	Utilizing real and statistically reconstructed microstructures for the viscoelastic modeling of polymer nanocomposites. <i>Composites Science and Technology</i> , 2012 , 72, 1725-1732	8.6	32
6	A predictive multiscale computational framework for viscoelastic properties of linear polymers. <i>Polymer</i> , 2012 , 53, 5935-5952	3.9	91
5	A Hybrid Approach to 3D Porous Microstructure Reconstruction via Gaussian Random Field 2012 ,		6
4	Structurally Realistic Modeling of Elastomers. <i>Rubber Chemistry and Technology</i> , 1998 , 71, 342-406	1.7	1
3	Continuous water purification system for Langmuir film studies. <i>Colloids and Surfaces</i> , 1988 , 29, 233-237		2
2	X-ray structure analysis of poly[di-(3,4-dimethylphenoxy)phosphazene]. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1983 , 21, 2349-2363		6
1	Josephson tunnel junctions with monomolecular barriers. <i>IEEE Transactions on Magnetics</i> , 1983 , 19, 980-982		5