Benjamin D Jensen

List of Publications by Year
in descending order

18	887	623188 14	887659 17
papers	citations	h-index	g-index

18	18	18	1085
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predicting mechanical response of crosslinked epoxy using ReaxFF. Chemical Physics Letters, 2014, 591, 175-178.	1.2	133
2	Modeling chemical reactions in classical molecular dynamics simulations. Polymer, 2017, 128, 211-217.	1.8	115
3	Simulation of the Elastic and Ultimate Tensile Properties of Diamond, Graphene, Carbon Nanotubes, and Amorphous Carbon Using a Revised ReaxFF Parametrization. Journal of Physical Chemistry A, 2015, 119, 9710-9721.	1.1	97
4	Molecular modeling of EPON-862/graphite composites: Interfacial characteristics for multiple crosslink densities. Composites Science and Technology, 2013, 76, 92-99.	3.8	85
5	The effect of time step, thermostat, and strain rate on ReaxFF simulations of mechanical failure in diamond, graphene, and carbon nanotube. Journal of Computational Chemistry, 2015, 36, 1587-1596.	1.5	81
6	Geometrically constrained self-assembly and crystal packing of flattened and aligned carbon nanotubes. Carbon, 2015, 93, 953-966.	5.4	63
7	Comparing the mechanical response of diâ€, triâ€, and tetraâ€functional resin epoxies with reactive molecular dynamics. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 255-264.	2.4	61
8	Exploring the interface between single-walled carbon nanotubes and epoxy resin. Carbon, 2016, 105, 600-606.	5.4	44
9	REACTER: A Heuristic Method for Reactive Molecular Dynamics. Macromolecules, 2020, 53, 9953-9961.	2.2	41
10	Machines as Craftsmen: Localized Parameter Setting Optimization for Fused Filament Fabrication 3D Printing. Advanced Materials Technologies, 2019, 4, 1800653.	3.0	38
11	Parametric Study of ReaxFF Simulation Parameters for Molecular Dynamics Modeling of Reactive Carbon Gases. Journal of Chemical Theory and Computation, 2012, 8, 3003-3008.	2.3	36
12	Simulating the effects of carbon nanotube continuity and interfacial bonding on composite strength and stiffness. Composites Science and Technology, 2018, 166, 10-19.	3.8	25
13	Toward ultralight high-strength structural materials via collapsed carbon nanotube bonding. Carbon, 2020, 156, 538-548.	5.4	20
14	Modifying carbon nanotube fibers: A study relating apparent interfacial shear strength and failure mode. Carbon, 2021, 173, 857-869.	5.4	17
15	Simulation of mechanical performance limits and failure of carbon nanotube composites. Modelling and Simulation in Materials Science and Engineering, 2016, 24, 025012.	0.8	14
16	Computationally Guided Design of Large-Diameter Carbon Nanotube Bundles for High-Strength Materials. ACS Applied Nano Materials, 2021, 4, 11115-11125.	2.4	10
17	Molecular Dynamics Modeling of Interfacial Interactions between Flattened Carbon Nanotubes and Amorphous Carbon: Implications for Ultra-Lightweight Composites. ACS Applied Nano Materials, 2022, 5, 5915-5924.	2.4	7
18	Predicting Thermo-Mechanical Response of Crosslinked Epoxy using ReaxFF. , 2014, , .		0