Kristopher E Wise

List of Publications by Year
in descending order

25 papers	2,282 citations	361413 20 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	2907 citing authors

#	Article	IF	Citations
1	Equivalent-continuum modeling of nano-structured materials. Composites Science and Technology, 2002, 62, 1869-1880.	7.8	561
2	Molecular modeling of crosslinked epoxy polymers: The effect of crosslink density on thermomechanical properties. Polymer, 2011, 52, 2445-2452.	3.8	281
3	Aligned single-wall carbon nanotube polymer composites using an electric field. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1751-1762.	2.1	202
4	AC and DC percolative conductivity of single wall carbon nanotube polymer composites. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3273-3287.	2.1	197
5	Stable dispersion of single wall carbon nanotubes in polyimide: the role of noncovalent interactions. Chemical Physics Letters, 2004, 391, 207-211.	2.6	154
6	Modeling chemical reactions in classical molecular dynamics simulations. Polymer, 2017, 128, 211-217.	3.8	115
7	Multifunctional Electroactive Nanocomposites Based on Piezoelectric Boron Nitride Nanotubes. ACS Nano, 2015, 9, 11942-11950.	14.6	111
8	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.	2.5	97
9	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.	3.3	81
10	Geometrically constrained self-assembly and crystal packing of flattened and aligned carbon nanotubes. Carbon, 2015, 93, 953-966.	10.3	63
11	Exciton Dynamics and Biexciton Formation in Single-Walled Carbon Nanotubes Studied with Femtosecond Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 4507-4516.	3.1	58
12	Exploring the interface between single-walled carbon nanotubes and epoxy resin. Carbon, 2016, 105, 600-606.	10.3	44
13	Toward High Performance Thermoset/Carbon Nanotube Sheet Nanocomposites via Resistive Heating Assisted Infiltration and Cure. ACS Applied Materials & Interfaces, 2014, 6, 18832-18843.	8.0	43
14	REACTER: A Heuristic Method for Reactive Molecular Dynamics. Macromolecules, 2020, 53, 9953-9961.	4.8	41
15	Polyaniline/Carbon Nanotube Sheet Nanocomposites: Fabrication and Characterization. ACS Applied Materials & Interfaces, 2013, 5, 8597-8606.	8.0	40
16	Parametric Study of ReaxFF Simulation Parameters for Molecular Dynamics Modeling of Reactive Carbon Gases. Journal of Chemical Theory and Computation, 2012, 8, 3003-3008.	5.3	36
17	Piezoelectric molecular dynamics model for boron nitride nanotubes. Computational Materials Science, 2014, 95, 362-370.	3.0	26
18	Simulating the effects of carbon nanotube continuity and interfacial bonding on composite strength and stiffness. Composites Science and Technology, 2018, 166, 10-19.	7.8	25

#	Article	IF	Citations
19	Ultrafast Dynamics of Single-Walled Carbon Nanotubes Dispersed in Polymer Films. Journal of Physical Chemistry A, 2005, 109, 289-292.	2.5	21
20	Thermodynamic approach to enhanced dispersion and physical properties in a carbon nanotube/polypeptide nanocomposite. Polymer, 2009, 50, 1925-1932.	3.8	20
21	Toward ultralight high-strength structural materials via collapsed carbon nanotube bonding. Carbon, 2020, 156, 538-548.	10.3	20
22	Modifying carbon nanotube fibers: A study relating apparent interfacial shear strength and failure mode. Carbon, 2021, 173, 857-869.	10.3	17
23	Simulation of mechanical performance limits and failure of carbon nanotube composites. Modelling and Simulation in Materials Science and Engineering, 2016, 24, 025012.	2.0	14
24	Computationally Guided Design of Large-Diameter Carbon Nanotube Bundles for High-Strength Materials. ACS Applied Nano Materials, 2021, 4, 11115-11125.	5.0	10
25	In situmechanical property measurements of amorphous carbonâ€"boron nitride nanotube nanostructures. Nanotechnology, 2012, 23, 035701.	2.6	5