

# Kristopher E Wise

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Modifying carbon nanotube fibers: A study relating apparent interfacial shear strength and failure mode. <i>Carbon</i> , 2021, 173, 857-869.	10.3	17
2	Computationally Guided Design of Large-Diameter Carbon Nanotube Bundles for High-Strength Materials. <i>ACS Applied Nano Materials</i> , 2021, 4, 11115-11125.	5.0	10
3	Toward ultralight high-strength structural materials via collapsed carbon nanotube bonding. <i>Carbon</i> , 2020, 156, 538-548.	10.3	20
4	REACTER: A Heuristic Method for Reactive Molecular Dynamics. <i>Macromolecules</i> , 2020, 53, 9953-9961.	4.8	41
5	Simulating the effects of carbon nanotube continuity and interfacial bonding on composite strength and stiffness. <i>Composites Science and Technology</i> , 2018, 166, 10-19.	7.8	25
6	Modeling chemical reactions in classical molecular dynamics simulations. <i>Polymer</i> , 2017, 128, 211-217.	3.8	115
7	Exploring the interface between single-walled carbon nanotubes and epoxy resin. <i>Carbon</i> , 2016, 105, 600-606.	10.3	44
8	Simulation of mechanical performance limits and failure of carbon nanotube composites. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 025012.	2.0	14
9	Multifunctional Electroactive Nanocomposites Based on Piezoelectric Boron Nitride Nanotubes. <i>ACS Nano</i> , 2015, 9, 11942-11950.	14.6	111
10	The effect of time step, thermostat, and strain rate on ReaxFF simulations of mechanical failure in diamond, graphene, and carbon nanotube. <i>Journal of Computational Chemistry</i> , 2015, 36, 1587-1596.	3.3	81
11	Geometrically constrained self-assembly and crystal packing of flattened and aligned carbon nanotubes. <i>Carbon</i> , 2015, 93, 953-966.	10.3	63
12	Simulation of the Elastic and Ultimate Tensile Properties of Diamond, Graphene, Carbon Nanotubes, and Amorphous Carbon Using a Revised ReaxFF Parametrization. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9710-9721.	2.5	97
13	Toward High Performance Thermoset/Carbon Nanotube Sheet Nanocomposites via Resistive Heating Assisted Infiltration and Cure. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18832-18843.	8.0	43
14	Piezoelectric molecular dynamics model for boron nitride nanotubes. <i>Computational Materials Science</i> , 2014, 95, 362-370.	3.0	26
15	Polyaniline/Carbon Nanotube Sheet Nanocomposites: Fabrication and Characterization. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8597-8606.	8.0	40
16	In situ mechanical property measurements of amorphous carbon/boron nitride nanotube nanostructures. <i>Nanotechnology</i> , 2012, 23, 035701.	2.6	5
17	Parametric Study of ReaxFF Simulation Parameters for Molecular Dynamics Modeling of Reactive Carbon Gases. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3003-3008.	5.3	36
18	Molecular modeling of crosslinked epoxy polymers: The effect of crosslink density on thermomechanical properties. <i>Polymer</i> , 2011, 52, 2445-2452.	3.8	281

#	ARTICLE	IF	CITATIONS
19	Thermodynamic approach to enhanced dispersion and physical properties in a carbon nanotube/polypeptide nanocomposite. <i>Polymer</i> , 2009, 50, 1925-1932.	3.8	20
20	Exciton Dynamics and Biexciton Formation in Single-Walled Carbon Nanotubes Studied with Femtosecond Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4507-4516.	3.1	58
21	Aligned single-wall carbon nanotube polymer composites using an electric field. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1751-1762.	2.1	202
22	AC and DC percolative conductivity of single wall carbon nanotube polymer composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3273-3287.	2.1	197
23	Ultrafast Dynamics of Single-Walled Carbon Nanotubes Dispersed in Polymer Films. <i>Journal of Physical Chemistry A</i> , 2005, 109, 289-292.	2.5	21
24	Stable dispersion of single wall carbon nanotubes in polyimide: the role of noncovalent interactions. <i>Chemical Physics Letters</i> , 2004, 391, 207-211.	2.6	154
25	Equivalent-continuum modeling of nano-structured materials. <i>Composites Science and Technology</i> , 2002, 62, 1869-1880.	7.8	561