

# Xiang Ren

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11130236/publications.pdf>

Version: 2024-02-01

12  
papers

261  
citations

1163117

8  
h-index

1474206

9  
g-index

12  
all docs

12  
docs citations

12  
times ranked

210  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational micromechanics modeling of inherent piezoresistivity in carbon nanotube-polymer nanocomposites. <i>Journal of Intelligent Material Systems and Structures</i> , 2013, 24, 1459-1483.	2.5	45
2	Computational micromechanics modeling of piezoresistivity in carbon nanotube-polymer nanocomposites. <i>Composite Interfaces</i> , 2013, 20, 693-720.	2.3	41
3	Modeling of mesoscale dispersion effect on the piezoresistivity of carbon nanotube-polymer nanocomposites via 3D computational multiscale micromechanics methods. <i>Smart Materials and Structures</i> , 2015, 24, 065031.	3.5	38
4	A novel hybrid approach for level set characterization and tracking of non-planar 3D cracks in the extended finite element method. <i>Engineering Fracture Mechanics</i> , 2016, 160, 1-14.	4.3	36
5	Computational multiscale modeling and characterization of piezoresistivity in fuzzy fiber reinforced polymer composites. <i>International Journal of Solids and Structures</i> , 2015, 54, 121-134.	2.7	35
6	Three dimensional crack propagation through mesh-based explicit representation for arbitrarily shaped cracks using the extended finite element method. <i>Engineering Fracture Mechanics</i> , 2017, 177, 218-238.	4.3	28
7	Concurrent multiscale modeling of coupling between continuum damage and piezoresistivity in CNT-polymer nanocomposites. <i>International Journal of Solids and Structures</i> , 2016, 96, 340-354.	2.7	17
8	Multiscale crystal-plasticity phase field and extended finite element methods for fatigue crack initiation and propagation modeling. <i>International Journal of Fracture</i> , 2019, 216, 41-57.	2.2	10
9	Multiscale Modeling of Multifunctional Fuzzy Fibers Based on Multi-Walled Carbon Nanotubes. <i>Springer Series in Materials Science</i> , 2014, , 135-176.	0.6	5
10	Computational Modeling and Experimental Characterization of Macroscale Piezoresistivity in Aligned Carbon Nanotube and Fuzzy Fiber Nanocomposites. , 2014, , .		3
11	Computational Micromechanics Analysis of Damage Induced Piezoresistivity in Carbon Nanotube-Polymer Nanocomposites Under Cyclic Loading Conditions. , 2015, , .		2
12	Concurrent Multiscale Modeling of Coupling between Continuum Damage and Piezoresistivity in CNT-Polymer Nanocomposites. , 2015, , .		1