Yuzhou Sun

List of Publications by Year
in descending order

29 papers	528 citations	759233 12 h-index	642732 23 g-index
29 all docs	29 docs citations	29 times ranked	266 citing authors

#	Article	IF	Citations
1	A Multiscale Model to Study the Mechanical Properties of the Graphene, Boron Nitride and Silicon Carbide Hexagonal Nanosheets. Current Mechanics and Advanced Materials, 2021, 1, 66-73.	0.1	0
2	Modeling of thermo-mechanical fracture behaviors based on cohesive segments formulation. Engineering Analysis With Boundary Elements, 2017, 77, 81-88.	3.7	4
3	A mesh-free vibration analysis of strain gradient nano-beams. Engineering Analysis With Boundary Elements, 2017, 84, 231-236.	3.7	25
4	A New and Efficient Boundary Element-Free Method for 2-D Crack Problems. Mathematical Problems in Engineering, 2017, 2017, 1-9.	1.1	2
5	The Elastic Property of Bulk Silicon Nanomaterials through an Atomic Simulation Method. Journal of Nanomaterials, 2016, 2016, 1-6.	2.7	1
6	The application of the mesh-free method in the numerical simulations of the higher-order continuum structures. AIP Conference Proceedings, 2016, , .	0.4	0
7	Elastic Properties of Boron-Nitride Nanotubes through an Atomic Simulation Method. Mathematical Problems in Engineering, 2015, 2015, 1-5.	1.1	7
8	The compressive buckling and size effect of single-walled carbon nanotubes. AIP Conference Proceedings, 2015, , .	0.4	0
9	The Mechanical Properties of Tubular Nanostructures Through an Atomic Simulation Method. Nanoscience and Nanotechnology Letters, 2015, 7, 648-654.	0.4	4
10	The Application of Mesh-Free Method in the Numerical Simulation of Beams with the Size Effect. Mathematical Problems in Engineering, 2014, 2014, 1-6.	1.1	4
11	Effect of higher-order deformation gradients on buckling of single-walled carbon nanotubes. Composite Structures, 2014, 109, 279-285.	5.8	17
12	Higher-Order Elasticity Constants and Mesh-Free Simulation for Microtubules. Journal of Biomaterials and Tissue Engineering, 2013, 3, 630-636.	0.1	2
13	A Multiscale Model to Predict the Elastic Property of Microtubules. Journal of Computational and Theoretical Nanoscience, 2012, 9, 789-793.	0.4	5
14	Higher-order Constitutive Relationship for Microtubules Based on the Higher-order Cauchy-Born Rule. Procedia Engineering, 2012, 31, 973-978.	1.2	0
15	Analyzing interaction between coplanar square cracks using an efficient boundary elementâ€free method. International Journal for Numerical Methods in Engineering, 2012, 91, 1184-1198.	2.8	4
16	Higher-Order Continuum Model and Mesh-Free Simulation for Microtubules Under Hydrostatic Presssure. Nanoscience and Nanotechnology Letters, 2012, 4, 593-597.	0.4	3
17	Analytical solution for a deep tunnel with arbitrary cross section in a transversely isotropic rock mass. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 1359-1363.	5.8	34
18	A continuum mechanics framework and a constitutive model for predicting the orthotropic elastic properties of microtubules. Composite Structures, 2011, 93, 1809-1818.	5.8	20

#	Article	IF	Citations
19	Investigation of temperature effect on the mechanical properties of single-walled carbon nanotubes. Composite Structures, 2011, 93, 2208-2212.	5.8	35
20	Improvement of Teaching Mode and Its Effect on Experiments in Material Mechanics with Information Technology. Communications in Computer and Information Science, 2011, , 36-40.	0.5	0
21	A Precise Model to Predict the Structural and Elastic Properties of Single-Walled Carbon Nanotubes. Journal of Computational and Theoretical Nanoscience, 2010, 7, 583-593.	0.4	10
22	Multiscale Modeling of Carbon Nanotubes. Challenges and Advances in Computational Chemistry and Physics, 2010, , 367-388.	0.6	1
23	Application of the higherâ€order Cauchyâ€“Born rule in meshâ€free continuum and multiscale simulation of carbon nanotubes. International Journal for Numerical Methods in Engineering, 2008, 75, 1238-1258.	2.8	54
24	The buckling of single-walled carbon nanotubes upon bending: The higher order gradient continuum and mesh-free method. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 3001-3013.	6.6	96
25	Mesh-free simulation of single-walled carbon nanotubes using higher order Cauchyâ€“Born rule. Computational Materials Science, 2008, 42, 444-452.	3.0	47
26	Elastic properties and pressure-induced structural transitions of single-walled carbon nanotubes. Physical Review B, 2008, 77, .	3.2	55
27	Boundary element-free method for fracture analysis of 2-D anisotropic piezoelectric solids. International Journal for Numerical Methods in Engineering, 2007, 69, 729-749.	2.8	33
28	A mesh-free simulation of cracking and failure using the cohesive segments method. International Journal of Engineering Science, 2007, 45, 541-553.	5.0	29
29	Analyzing the interaction between collinear interfacial cracks by an efficient boundary element-free method. International Journal of Engineering Science, 2006, 44, 37-48.	5.0	36