

Yuzhou Sun

List of Publications by Year in descending order

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29
papers

528
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759055

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29
times ranked

266
citing authors

#	ARTICLE	IF	CITATIONS
1	The buckling of single-walled carbon nanotubes upon bending: The higher order gradient continuum and mesh-free method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 3001-3013.	3.4	96
2	Elastic properties and pressure-induced structural transitions of single-walled carbon nanotubes. <i>Physical Review B</i> , 2008, 77, .	1.1	55
3	Application of the higher-order Cauchy-Born rule in mesh-free continuum and multiscale simulation of carbon nanotubes. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 75, 1238-1258.	1.5	54
4	Mesh-free simulation of single-walled carbon nanotubes using higher order Cauchy-Born rule. <i>Computational Materials Science</i> , 2008, 42, 444-452.	1.4	47
5	Analyzing the interaction between collinear interfacial cracks by an efficient boundary element-free method. <i>International Journal of Engineering Science</i> , 2006, 44, 37-48.	2.7	36
6	Investigation of temperature effect on the mechanical properties of single-walled carbon nanotubes. <i>Composite Structures</i> , 2011, 93, 2208-2212.	3.1	35
7	Analytical solution for a deep tunnel with arbitrary cross section in a transversely isotropic rock mass. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2011, 48, 1359-1363.	2.6	34
8	Boundary element-free method for fracture analysis of 2-D anisotropic piezoelectric solids. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 729-749.	1.5	33
9	A mesh-free simulation of cracking and failure using the cohesive segments method. <i>International Journal of Engineering Science</i> , 2007, 45, 541-553.	2.7	29
10	A mesh-free vibration analysis of strain gradient nano-beams. <i>Engineering Analysis With Boundary Elements</i> , 2017, 84, 231-236.	2.0	25
11	A continuum mechanics framework and a constitutive model for predicting the orthotropic elastic properties of microtubules. <i>Composite Structures</i> , 2011, 93, 1809-1818.	3.1	20
12	Effect of higher-order deformation gradients on buckling of single-walled carbon nanotubes. <i>Composite Structures</i> , 2014, 109, 279-285.	3.1	17
13	A Precise Model to Predict the Structural and Elastic Properties of Single-Walled Carbon Nanotubes. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010, 7, 583-593.	0.4	10
14	Elastic Properties of Boron-Nitride Nanotubes through an Atomic Simulation Method. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-5.	0.6	7
15	A Multiscale Model to Predict the Elastic Property of Microtubules. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 789-793.	0.4	5
16	Analyzing interaction between coplanar square cracks using an efficient boundary element-free method. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 91, 1184-1198.	1.5	4
17	The Application of Mesh-Free Method in the Numerical Simulation of Beams with the Size Effect. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-6.	0.6	4
18	Modeling of thermo-mechanical fracture behaviors based on cohesive segments formulation. <i>Engineering Analysis With Boundary Elements</i> , 2017, 77, 81-88.	2.0	4

#	ARTICLE	IF	CITATIONS
19	The Mechanical Properties of Tubular Nanostructures Through an Atomic Simulation Method. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 648-654.	0.4	4
20	Higher-Order Continuum Model and Mesh-Free Simulation for Microtubules Under Hydrostatic Pressure. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 593-597.	0.4	3
21	A New and Efficient Boundary Element-Free Method for 2-D Crack Problems. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-9.	0.6	2
22	Higher-Order Elasticity Constants and Mesh-Free Simulation for Microtubules. <i>Journal of Biomaterials and Tissue Engineering</i> , 2013, 3, 630-636.	0.0	2
23	The Elastic Property of Bulk Silicon Nanomaterials through an Atomic Simulation Method. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-6.	1.5	1
24	Multiscale Modeling of Carbon Nanotubes. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010, , 367-388.	0.6	1
25	Higher-order Constitutive Relationship for Microtubules Based on the Higher-order Cauchy-Born Rule. <i>Procedia Engineering</i> , 2012, 31, 973-978.	1.2	0
26	The compressive buckling and size effect of single-walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
27	The application of the mesh-free method in the numerical simulations of the higher-order continuum structures. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
28	A Multiscale Model to Study the Mechanical Properties of the Graphene, Boron Nitride and Silicon Carbide Hexagonal Nanosheets. <i>Current Mechanics and Advanced Materials</i> , 2021, 1, 66-73.	0.1	0
29	Improvement of Teaching Mode and Its Effect on Experiments in Material Mechanics with Information Technology. <i>Communications in Computer and Information Science</i> , 2011, , 36-40.	0.4	0