Jianhu Shen

List of Publications by Year
in descending order

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36 papers	2,076 citations	279798 23 h-index	395702 33 g-index
36 all docs	36 docs citations	36 times ranked	1710 citing authors

#	Article	IF	Citations
1	Nonlinear vibration of a buckled/damaged BNC nanobeam transversally impacted by a high-speed C60. Scientific Reports, 2021, 11, 635.	3.3	0
2	Mechanical properties of bonded few-layered graphene via uniaxial test: A molecular dynamics simulation study. Computational Materials Science, 2020, 172, 109295.	3.0	11
3	Stable rotation transmission of a CNT-based nanogear drive system with intersecting axes at low temperature. Surface Science, 2020, 693, 121548.	1.9	9
4	Ideal Oscillation of a Hydrogenated Deformable Rotor in a Gigahertz Rotationâ€“Translation Nanoconverter at Low Temperatures. Sensors, 2020, 20, 1969.	3.8	1
5	Critical Output Torque of a GHz CNT-Based Rotation Transmission System Via Axial Interface Friction at Low Temperature. International Journal of Molecular Sciences, 2019, 20, 3851.	4.1	4
6	Evolutionary topology optimization of continuum structures considering fatigue failure. Materials and Design, 2019, 166, 107586.	7.0	30
7	Stress Minimization of Structures Based on Bidirectional Evolutionary Procedure. Journal of Structural Engineering, 2019, 145, 04018256.	3.4	12
8	Auxetic nail: Design and experimental study. Composite Structures, 2018, 184, 288-298.	5.8	123
9	Design and characterisation of a tuneable 3D buckling-induced auxetic metamaterial. Materials and Design, 2018, 139, 336-342.	7.0	132
10	Design of dimpled tubular structures for energy absorption. Thin-Walled Structures, 2017, 112, 31-40.	5.3	34
11	Design of Hierarchical Structures for Synchronized Deformations. Scientific Reports, 2017, 7, 41183.	3.3	11
12	Design and fabrication of materials and structures with negative Poisson's ratio and negative linear compressibility. , 2017, , .		0
13	Designing composites with negative linear compressibility. Materials and Design, 2017, 131, 343-357.	7.0	22
14	Tuning the Performance of Metallic Auxetic Metamaterials by Using Buckling and Plasticity. Materials, 2016, 9, 54.	2.9	61
15	Energy absorption of thin-walled tubes with pre-folded origami patterns: Numerical simulation and experimental verification. Thin-Walled Structures, 2016, 103, 33-44.	5.3	125
16	Lattice Ti structures with low rigidity but compatible mechanical strength: Design of implant materials for trabecular bone. International Journal of Precision Engineering and Manufacturing, 2016, 17, 793-799.	2.2	26
17	A simple auxetic tubular structure with tuneable mechanical properties. Smart Materials and Structures, 2016, 25, 065012.	3.5	119
18	Design of lattice structures with controlled anisotropy. Materials and Design, 2016, 93, 443-447.	7.0	212

#	Article	IF	Citations
19	Numerical investigation of compressive behaviour of luffa-filled tubes. Composites Part B: Engineering, 2015, 73, 149-157.	12.0	21
20	Experiments and parametric studies on 3D metallic auxetic metamaterials with tuneable mechanical properties. Smart Materials and Structures, 2015, 24, 095016.	3.5	139
21	Lateral plastic collapse of sandwich tubes with metal foam core. International Journal of Mechanical Sciences, 2015, 91, 99-109.	6.7	58
22	Inertia Effect on Buckling-Induced Auxetic Metamaterials. International Journal of Protective Structures, 2015, 6, 311-322.	2.3	7
23	Design of fishnet metamaterials with broadband negative refractive index in the visible spectrum. Optics Letters, 2014, 39, 2415.	3.3	21
24	Simple cubic three-dimensional auxetic metamaterials. Physica Status Solidi (B): Basic Research, 2014, 251, 1515-1522.	1.5	109
25	Designing orthotropic materials for negative or zero compressibility. International Journal of Solids and Structures, 2014, 51, 4038-4051.	2.7	71
26	Water-responsive rapid recovery of natural cellular material. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 34, 283-293.	3.1	28
27	Behaviour of luffa sponge material under dynamic loading. International Journal of Impact Engineering, 2013, 57, 17-26.	5.0	63
28	Dynamic lateral crushing of empty and sandwich tubes. International Journal of Impact Engineering, 2013, 53, 3-16.	5.0	64
29	Identification of material parameters for aluminum foam at high strain rate. Computational Materials Science, 2013, 74, 65-74.	3.0	27
30	Short sandwich tubes subjected to internal explosive loading. Engineering Structures, 2013, 55, 56-65.	5.3	36
31	Energy Absorption of Sandwich Tubes Under Lateral Loading. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 321-328.	0.5	0
32	Mechanical properties of luffa sponge. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 15, 141-152.	3.1	121
33	Response of Curved Sandwich Panels Subjected to Blast Loading. Journal of Performance of Constructed Facilities, 2011, 25, 382-393.	2.0	37
34	Compressive behavior of closed-cell aluminum alloy foams at medium strain rates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2326-2330.	5.6	65
35	Experiments on curved sandwich panels under blast loading. International Journal of Impact Engineering, 2010, 37, 960-970.	5.0	116
36	Compressive behaviour of closed-cell aluminium foams at high strain rates. Composites Part B: Engineering, 2010, 41, 678-685.	12.0	161