

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	Design of lattice structures with controlled anisotropy. <i>Materials and Design</i> , 2016, 93, 443-447.	7.0	212
2	Compressive behaviour of closed-cell aluminium foams at high strain rates. <i>Composites Part B: Engineering</i> , 2010, 41, 678-685.	12.0	161
3	Experiments and parametric studies on 3D metallic auxetic metamaterials with tuneable mechanical properties. <i>Smart Materials and Structures</i> , 2015, 24, 095016.	3.5	139
4	Design and characterisation of a tuneable 3D buckling-induced auxetic metamaterial. <i>Materials and Design</i> , 2018, 139, 336-342.	7.0	132
5	Energy absorption of thin-walled tubes with pre-folded origami patterns: Numerical simulation and experimental verification. <i>Thin-Walled Structures</i> , 2016, 103, 33-44.	5.3	125
6	Auxetic nail: Design and experimental study. <i>Composite Structures</i> , 2018, 184, 288-298.	5.8	123
7	Mechanical properties of luffa sponge. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 15, 141-152.	3.1	121
8	A simple auxetic tubular structure with tuneable mechanical properties. <i>Smart Materials and Structures</i> , 2016, 25, 065012.	3.5	119
9	Experiments on curved sandwich panels under blast loading. <i>International Journal of Impact Engineering</i> , 2010, 37, 960-970.	5.0	116
10	Simple cubic three-dimensional auxetic metamaterials. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 1515-1522.	1.5	109
11	Designing orthotropic materials for negative or zero compressibility. <i>International Journal of Solids and Structures</i> , 2014, 51, 4038-4051.	2.7	71
12	Compressive behavior of closed-cell aluminum alloy foams at medium strain rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2326-2330.	5.6	65
13	Dynamic lateral crushing of empty and sandwich tubes. <i>International Journal of Impact Engineering</i> , 2013, 53, 3-16.	5.0	64
14	Behaviour of luffa sponge material under dynamic loading. <i>International Journal of Impact Engineering</i> , 2013, 57, 17-26.	5.0	63
15	Tuning the Performance of Metallic Auxetic Metamaterials by Using Buckling and Plasticity. <i>Materials</i> , 2016, 9, 54.	2.9	61
16	Lateral plastic collapse of sandwich tubes with metal foam core. <i>International Journal of Mechanical Sciences</i> , 2015, 91, 99-109.	6.7	58
17	Response of Curved Sandwich Panels Subjected to Blast Loading. <i>Journal of Performance of Constructed Facilities</i> , 2011, 25, 382-393.	2.0	37
18	Short sandwich tubes subjected to internal explosive loading. <i>Engineering Structures</i> , 2013, 55, 56-65.	5.3	36

#	ARTICLE	IF	CITATIONS
19	Design of dimpled tubular structures for energy absorption. <i>Thin-Walled Structures</i> , 2017, 112, 31-40.	5.3	34
20	Evolutionary topology optimization of continuum structures considering fatigue failure. <i>Materials and Design</i> , 2019, 166, 107586.	7.0	30
21	Water-responsive rapid recovery of natural cellular material. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 34, 283-293.	3.1	28
22	Identification of material parameters for aluminum foam at high strain rate. <i>Computational Materials Science</i> , 2013, 74, 65-74.	3.0	27
23	Lattice Ti structures with low rigidity but compatible mechanical strength: Design of implant materials for trabecular bone. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016, 17, 793-799.	2.2	26
24	Designing composites with negative linear compressibility. <i>Materials and Design</i> , 2017, 131, 343-357.	7.0	22
25	Design of fishnet metamaterials with broadband negative refractive index in the visible spectrum. <i>Optics Letters</i> , 2014, 39, 2415.	3.3	21
26	Numerical investigation of compressive behaviour of luffa-filled tubes. <i>Composites Part B: Engineering</i> , 2015, 73, 149-157.	12.0	21
27	Stress Minimization of Structures Based on Bidirectional Evolutionary Procedure. <i>Journal of Structural Engineering</i> , 2019, 145, 04018256.	3.4	12
28	Design of Hierarchical Structures for Synchronized Deformations. <i>Scientific Reports</i> , 2017, 7, 41183.	3.3	11
29	Mechanical properties of bonded few-layered graphene via uniaxial test: A molecular dynamics simulation study. <i>Computational Materials Science</i> , 2020, 172, 109295.	3.0	11
30	Stable rotation transmission of a CNT-based nanogear drive system with intersecting axes at low temperature. <i>Surface Science</i> , 2020, 693, 121548.	1.9	9
31	Inertia Effect on Buckling-Induced Auxetic Metamaterials. <i>International Journal of Protective Structures</i> , 2015, 6, 311-322.	2.3	7
32	Critical Output Torque of a GHz CNT-Based Rotation Transmission System Via Axial Interface Friction at Low Temperature. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3851.	4.1	4
33	Ideal Oscillation of a Hydrogenated Deformable Rotor in a Gigahertz Rotation-Translation Nanoconverter at Low Temperatures. <i>Sensors</i> , 2020, 20, 1969.	3.8	1
34	Design and fabrication of materials and structures with negative Poisson's ratio and negative linear compressibility. , 2017, , .		0
35	Nonlinear vibration of a buckled/damaged BNC nanobeam transversally impacted by a high-speed C60. <i>Scientific Reports</i> , 2021, 11, 635.	3.3	0
36	Energy Absorption of Sandwich Tubes Under Lateral Loading. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013, , 321-328.	0.5	0