

Shanqing Xu

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,771
citations

361413

20
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

3466
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological design and additive manufacturing of porous metals for bone scaffolds and orthopaedic implants: A review. <i>Biomaterials</i> , 2016, 83, 127-141.	11.4	1,492
2	Design of lattice structures with controlled anisotropy. <i>Materials and Design</i> , 2016, 93, 443-447.	7.0	212
3	Experimental study of the out-of-plane dynamic compression of hexagonal honeycombs. <i>Composite Structures</i> , 2012, 94, 2326-2336.	5.8	189
4	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
5	Crush responses of composite cylinder under quasi-static and dynamic loading. <i>Composite Structures</i> , 2015, 131, 90-98.	5.8	87
6	Dynamic tensile behaviour of TWIP steel under intermediate strain rate loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 573, 132-140.	5.6	57
7	Mechanical response and dynamic deformation mechanisms of closed-cell aluminium alloy foams under dynamic loading. <i>International Journal of Impact Engineering</i> , 2018, 114, 111-122.	5.0	56
8	Experimental investigation of the mechanical behavior of aluminum honeycombs under quasi-static and dynamic indentation. <i>Materials & Design</i> , 2015, 74, 138-149.	5.1	55
9	Strength enhancement of aluminium honeycombs caused by entrapped air under dynamic out-of-plane compression. <i>International Journal of Impact Engineering</i> , 2012, 47, 1-13.	5.0	53
10	Multi-objective optimization of multi-cell tubes with origami patterns for energy absorption. <i>Thin-Walled Structures</i> , 2018, 123, 100-113.	5.3	53
11	Design optimization and additive manufacturing of nodes in gridshell structures. <i>Engineering Structures</i> , 2018, 160, 161-170.	5.3	52
12	Dynamic performance of auxetic structures: experiments and simulation. <i>Smart Materials and Structures</i> , 2020, 29, 055031.	3.5	38
13	Design of dimpled tubular structures for energy absorption. <i>Thin-Walled Structures</i> , 2017, 112, 31-40.	5.3	34
14	Strength enhancement of aluminium foams and honeycombs by entrapped air under dynamic loadings. <i>International Journal of Impact Engineering</i> , 2014, 74, 120-125.	5.0	32
15	Maximizing the effective Young's modulus of a composite material by exploiting the Poisson effect. <i>Composite Structures</i> , 2016, 153, 593-600.	5.8	32
16	Effect of sample orientation and initial microstructures on the dynamic recrystallization of a Magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 691, 150-154.	5.6	27
17	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
18	Examination of Surface Conditions and Other Physical Properties of Commonly Used Stainless Steel Acupuncture Needles. <i>Acupuncture in Medicine</i> , 2014, 32, 146-154.	1.0	25

#	ARTICLE	IF	CITATIONS
19	Dynamic behaviour of high strength steel parts developed through laser assisted direct metal deposition. <i>Materials & Design</i> , 2014, 64, 650-659.	5.1	24
20	Collision and rebounding of circular rings on rigid target. <i>International Journal of Impact Engineering</i> , 2015, 79, 14-21.	5.0	22
21	Impact behaviour of plate-like assemblies made of new and existing interlocking bricks: A comparative study. <i>International Journal of Impact Engineering</i> , 2018, 116, 79-93.	5.0	21
22	FINITE ELEMENT ANALYSIS OF THE DYNAMIC BEHAVIOR OF ALUMINUM HONEYCOMBS. <i>International Journal of Computational Methods</i> , 2014, 11, 1344001.	1.3	11
23	Design of Hierarchical Structures for Synchronized Deformations. <i>Scientific Reports</i> , 2017, 7, 41183.	3.3	11
24	Concurrent topological design of composite structures and materials containing multiple phases of distinct Poisson's ratios. <i>Engineering Optimization</i> , 2018, 50, 599-614.	2.6	11
25	Mechanical behaviour of a creased thin strip. <i>Mechanical Sciences</i> , 2018, 9, 91-102.	1.0	9
26	Crushing Behavior of Functionally Graded Lattice. <i>Jom</i> , 2021, 73, 4130-4140.	1.9	8
27	High-speed spinning disks on flexible threads. <i>Scientific Reports</i> , 2017, 7, 13111.	3.3	7
28	Examination of Needle Surface Corrosion in Electroacupuncture. <i>Acupuncture in Medicine</i> , 2018, 36, 367-376.	1.0	2