## Xin Ren

## List of Publications by Year in descending order

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Version: 2024-02-01

	201674	345221
2,827	27	36
citations	h-index	g-index
20	20	1011
38	38	1011
docs citations	times ranked	citing authors
	citations 38	2,827 27 citations h-index  38 38

#	Article	IF	CITATIONS
1	Auxetic metamaterials and structures: a review. Smart Materials and Structures, 2018, 27, 023001.	3.5	657
2	Design, manufacturing and applications of auxetic tubular structures: A review. Thin-Walled Structures, 2021, 163, 107682.	<b>5.</b> 3	164
3	Experiments and parametric studies on 3D metallic auxetic metamaterials with tuneable mechanical properties. Smart Materials and Structures, 2015, 24, 095016.	3.5	139
4	Design and characterisation of a tuneable 3D buckling-induced auxetic metamaterial. Materials and Design, 2018, 139, 336-342.	7.0	132
5	Auxetic nail: Design and experimental study. Composite Structures, 2018, 184, 288-298.	5.8	123
6	A simple auxetic tubular structure with tuneable mechanical properties. Smart Materials and Structures, 2016, 25, 065012.	3.5	119
7	Manufacturing, characteristics and applications of auxetic foams: A state-of-the-art review. Composites Part B: Engineering, 2022, 235, 109733.	12.0	111
8	A novel auxetic chiral lattice composite: Experimental and numerical study. Composite Structures, 2022, 282, 115043.	5.8	106
9	Based on auxetic foam: A novel type of seismic metamaterial for Lamb waves. Engineering Structures, 2021, 246, 112976.	5.3	100
10	Mechanical properties of foam-filled hexagonal and re-entrant honeycombs under uniaxial compression. Composite Structures, 2022, 280, 114922.	5.8	96
11	Design and mechanical characteristics of auxetic metamaterial with tunable stiffness. International Journal of Mechanical Sciences, 2022, 223, 107286.	6.7	84
12	A novel buckling-restrained brace with auxetic perforated core: Experimental and numerical studies. Engineering Structures, 2021, 249, 113223.	5.3	83
13	A novel combined auxetic tubular structure with enhanced tunable stiffness. Composites Part B: Engineering, 2021, 226, 109303.	12.0	78
14	Mechanical properties of foam-filled auxetic circular tubes: Experimental and numerical study. Thin-Walled Structures, 2022, 170, 108584.	5.3	74
15	A novel auxetic metamaterial with enhanced mechanical properties and tunable auxeticity. Thin-Walled Structures, 2022, 174, 109162.	5.3	71
16	Mechanical properties of concrete composites with auxetic single and layered honeycomb structures. Construction and Building Materials, 2022, 322, 126453.	7.2	65
17	Tuning the Performance of Metallic Auxetic Metamaterials by Using Buckling and Plasticity. Materials, 2016, 9, 54.	2.9	61
18	A simple 3D re-entrant auxetic metamaterial with enhanced energy absorption. International Journal of Mechanical Sciences, 2022, 229, 107524.	6.7	60

#	Article	IF	CITATIONS
19	Static and dynamic properties of a perforated metallic auxetic metamaterial with tunable stiffness and energy absorption. International Journal of Impact Engineering, 2022, 164, 104193.	5.0	59
20	Lightweight auxetic metamaterials: Design and characteristic study. Composite Structures, 2022, 293, 115706.	5.8	56
21	A novel type of tubular structure with auxeticity both in radial direction and wall thickness. Thin-Walled Structures, 2021, 163, 107758.	5.3	54
22	A novel auxetic acoustic metamaterial plate with tunable bandgap. International Journal of Mechanical Sciences, 2022, 226, 107414.	6.7	49
23	Design and analysis of an auxetic metamaterial with tuneable stiffness. Composite Structures, 2022, 281, 114997.	5.8	37
24	Theoretical solutions for auxetic laminated beam subjected to a sudden load. Structures, 2020, 28, 57-68.	3.6	36
25	A novel enhanced anti-tetra-missing rib auxetic structure with tailorable in-plane mechanical properties. Engineering Structures, 2022, 262, 114399.	5.3	35
26	A Simple Methodology to Generate Metamaterials and Structures with Negative Poisson's Ratio. Physica Status Solidi (B): Basic Research, 2020, 257, 2000439.	1.5	32
27	In-plane compressive properties of assembled auxetic chiral honeycomb composed of slotted wave plate. Materials and Design, 2022, 221, 110956.	7.0	30
28	A novel re-entrant honeycomb metamaterial with tunable bandgap. Smart Materials and Structures, 2022, 31, 095024.	3.5	24
29	Designing composites with negative linear compressibility. Materials and Design, 2017, 131, 343-357.	7.0	22
30	Numerical Simulations of 3D Metallic Auxetic Metamaterials in both Compression and Tension. Applied Mechanics and Materials, 0, 846, 565-570.	0.2	15
31	Experimental and computational investigations of novel 3D printed square tubular lattice metamaterials with negative Poisson's ratio. Additive Manufacturing, 2022, 55, 102789.	3.0	15
32	Static and dynamic analyses of auxetic hybrid FRC/CNTRC laminated plates. Nanotechnology Reviews, 2020, 9, 1625-1642.	5.8	11
33	Contrastive analysis and crashworthiness optimization of two composite thin-walled structures. Journal of Central South University, 2014, 21, 4386-4394.	3.0	10
34	Geometric Non-Linear Analysis of Auxetic Hybrid Laminated Beams Containing CNT Reinforced Composite Materials. Materials, 2020, 13, 3718.	2.9	9
35	Numerical investigation of tubular structures generated by cutting method and pattern scale factor (PSF) method. Pigment and Resin Technology, 2019, ahead-of-print, .	0.9	4
36	A novel cement-based auxetic foam composite: Experimental study. Case Studies in Construction Materials, 2022, 17, e01159.	1.7	4

#	Article	IF	CITATIONS
37	The Application Study of Specific Ankle-Foot Orthoses for Stroke Patients by 3D Printing Somos NeXt. Journal of Biomaterials and Tissue Engineering, 2019, 9, 745-750.	0.1	2
38	Design and fabrication of materials and structures with negative Poisson's ratio and negative linear compressibility. , 2017, , .		0