

# Xin Ren

## List of Publications by Year in descending order

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38  
papers

2,827  
citations

201674

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345221

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38  
docs citations

38  
times ranked

1011  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of foam-filled hexagonal and re-entrant honeycombs under uniaxial compression. <i>Composite Structures</i> , 2022, 280, 114922.	5.8	96
2	Mechanical properties of foam-filled auxetic circular tubes: Experimental and numerical study. <i>Thin-Walled Structures</i> , 2022, 170, 108584.	5.3	74
3	Design and analysis of an auxetic metamaterial with tuneable stiffness. <i>Composite Structures</i> , 2022, 281, 114997.	5.8	37
4	A novel auxetic chiral lattice composite: Experimental and numerical study. <i>Composite Structures</i> , 2022, 282, 115043.	5.8	106
5	Mechanical properties of concrete composites with auxetic single and layered honeycomb structures. <i>Construction and Building Materials</i> , 2022, 322, 126453.	7.2	65
6	Static and dynamic properties of a perforated metallic auxetic metamaterial with tunable stiffness and energy absorption. <i>International Journal of Impact Engineering</i> , 2022, 164, 104193.	5.0	59
7	Manufacturing, characteristics and applications of auxetic foams: A state-of-the-art review. <i>Composites Part B: Engineering</i> , 2022, 235, 109733.	12.0	111
8	A novel auxetic metamaterial with enhanced mechanical properties and tunable auxeticity. <i>Thin-Walled Structures</i> , 2022, 174, 109162.	5.3	71
9	Experimental and computational investigations of novel 3D printed square tubular lattice metamaterials with negative Poisson's ratio. <i>Additive Manufacturing</i> , 2022, 55, 102789.	3.0	15
10	Design and mechanical characteristics of auxetic metamaterial with tunable stiffness. <i>International Journal of Mechanical Sciences</i> , 2022, 223, 107286.	6.7	84
11	Lightweight auxetic metamaterials: Design and characteristic study. <i>Composite Structures</i> , 2022, 293, 115706.	5.8	56
12	A novel enhanced anti-tetra-missing rib auxetic structure with tailorable in-plane mechanical properties. <i>Engineering Structures</i> , 2022, 262, 114399.	5.3	35
13	A novel cement-based auxetic foam composite: Experimental study. <i>Case Studies in Construction Materials</i> , 2022, 17, e01159.	1.7	4
14	A novel auxetic acoustic metamaterial plate with tunable bandgap. <i>International Journal of Mechanical Sciences</i> , 2022, 226, 107414.	6.7	49
15	In-plane compressive properties of assembled auxetic chiral honeycomb composed of slotted wave plate. <i>Materials and Design</i> , 2022, 221, 110956.	7.0	30
16	A novel re-entrant honeycomb metamaterial with tunable bandgap. <i>Smart Materials and Structures</i> , 2022, 31, 095024.	3.5	24
17	A simple 3D re-entrant auxetic metamaterial with enhanced energy absorption. <i>International Journal of Mechanical Sciences</i> , 2022, 229, 107524.	6.7	60
18	Design, manufacturing and applications of auxetic tubular structures: A review. <i>Thin-Walled Structures</i> , 2021, 163, 107682.	5.3	164

#	ARTICLE	IF	CITATIONS
19	A novel type of tubular structure with auxeticity both in radial direction and wall thickness. Thin-Walled Structures, 2021, 163, 107758.	5.3	54
20	Based on auxetic foam: A novel type of seismic metamaterial for Lamb waves. Engineering Structures, 2021, 246, 112976.	5.3	100
21	A novel combined auxetic tubular structure with enhanced tunable stiffness. Composites Part B: Engineering, 2021, 226, 109303.	12.0	78
22	A novel buckling-restrained brace with auxetic perforated core: Experimental and numerical studies. Engineering Structures, 2021, 249, 113223.	5.3	83
23	Geometric Non-Linear Analysis of Auxetic Hybrid Laminated Beams Containing CNT Reinforced Composite Materials. Materials, 2020, 13, 3718.	2.9	9
24	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
25	Theoretical solutions for auxetic laminated beam subjected to a sudden load. Structures, 2020, 28, 57-68.	3.6	36
26	Static and dynamic analyses of auxetic hybrid FRC/CNTRC laminated plates. Nanotechnology Reviews, 2020, 9, 1625-1642.	5.8	11
27	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
28	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
29	Auxetic metamaterials and structures: a review. Smart Materials and Structures, 2018, 27, 023001.	3.5	657
30	Auxetic nail: Design and experimental study. Composite Structures, 2018, 184, 288-298.	5.8	123
31	Design and characterisation of a tuneable 3D buckling-induced auxetic metamaterial. Materials and Design, 2018, 139, 336-342.	7.0	132
32	Design and fabrication of materials and structures with negative Poisson's ratio and negative linear compressibility. , 2017, , .		0
33	Designing composites with negative linear compressibility. Materials and Design, 2017, 131, 343-357.	7.0	22
34	Tuning the Performance of Metallic Auxetic Metamaterials by Using Buckling and Plasticity. Materials, 2016, 9, 54.	2.9	61
35	A simple auxetic tubular structure with tuneable mechanical properties. Smart Materials and Structures, 2016, 25, 065012.	3.5	119
36	Experiments and parametric studies on 3D metallic auxetic metamaterials with tuneable mechanical properties. Smart Materials and Structures, 2015, 24, 095016.	3.5	139

#	ARTICLE	IF	CITATIONS
37	Contrastive analysis and crashworthiness optimization of two composite thin-walled structures. Journal of Central South University, 2014, 21, 4386-4394.	3.0	10
38	Numerical Simulations of 3D Metallic Auxetic Metamaterials in both Compression and Tension. Applied Mechanics and Materials, 0, 846, 565-570.	0.2	15