

# Xiaonan Hou

## List of Publications by Year in descending order

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30  
papers

667  
citations

623734

14  
h-index

580821

25  
g-index

31  
all docs

31  
docs citations

31  
times ranked

493  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel concept to develop composite structures with isotropic negative Poisson's ratio: Effects of random inclusions. <i>Composites Science and Technology</i> , 2012, 72, 1848-1854.	7.8	58
2	Metamaterials with Negative Poisson's Ratio: A Review of Mechanical Properties and Deformation Mechanisms. <i>Engineering Materials</i> , 2015, , 155-179.	0.6	50
3	Strength of submarine hoses in Chinese-lantern configuration from hydrodynamic loads on CALM buoy. <i>Ocean Engineering</i> , 2019, 171, 429-442.	4.3	50
4	2D finite element analysis of thermally bonded nonwoven materials: Continuous and discontinuous models. <i>Computational Materials Science</i> , 2009, 46, 700-707.	3.0	48
5	Composite risers for deep waters using a numerical modelling approach. <i>Composite Structures</i> , 2019, 210, 486-499.	5.8	48
6	Finite element simulation of low-density thermally bonded nonwoven materials: Effects of orientation distribution function and arrangement of bond points. <i>Computational Materials Science</i> , 2011, 50, 1292-1298.	3.0	46
7	A multi-scale model for studying failure mechanisms of composite wind turbine blades. <i>Composite Structures</i> , 2019, 212, 220-229.	5.8	46
8	A study of computational mechanics of 3D spacer fabric: factors affecting its compression deformation. <i>Journal of Materials Science</i> , 2012, 47, 3989-3999.	3.7	36
9	A parametric study of adhesive bonded joints with composite material using black-box and grey-box machine learning methods: Deep neuron networks and genetic programming. <i>Composites Part B: Engineering</i> , 2021, 217, 108894.	12.0	30
10	Numerical analysis of composite structure with in-plane isotropic negative Poisson's ratio: Effects of materials properties and geometry features of inclusions. <i>Composites Part B: Engineering</i> , 2014, 58, 152-159.	12.0	25
11	Non-uniformity of deformation in low-density thermally point bonded non-woven material: effect of microstructure. <i>Journal of Materials Science</i> , 2011, 46, 307-315.	3.7	23
12	The influence of notching and mixed-adhesives at the bonding area on the strength and stress distribution of dissimilar single-lap joints. <i>Composite Structures</i> , 2020, 241, 112136.	5.8	23
13	The effect of joint configuration on the strength and stress distributions of dissimilar adhesively bonded joints. <i>Engineering Structures</i> , 2021, 226, 111322.	5.3	19
14	Fracture mechanisms of hybrid adhesive bonded joints: Effects of the stiffness of constituents. <i>International Journal of Adhesion and Adhesives</i> , 2020, 102, 102649.	2.9	17
15	Hybrid and adhesively bonded joints with dissimilar adherends: a critical review. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 1821-1859.	2.6	16
16	Finite Element Modelling on the Mechanical Behaviour of Marine Bonded Composite Hose (MBCH) under Burst and Collapse. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 151.	2.6	14
17	Recycling of Renewable Composite Materials in the Offshore Industry. , 2020, , 583-613.		11
18	A novel dissimilar single-lap joint with interfacial stiffness improvement. <i>Composite Structures</i> , 2020, 252, 112741.	5.8	11

#	ARTICLE	IF	CITATIONS
19	Non-linear finite element model for dynamic analysis of high-speed valve train and coil collisions. <i>International Journal of Mechanical Sciences</i> , 2020, 173, 105476.	6.7	11
20	Understanding mixed mode ratio of adhesively bonded joints using genetic programming (GP). <i>Composite Structures</i> , 2021, 258, 113389.	5.8	11
21	Design optimisation of braided composite beams for lightweight rail structures using machine learning methods. <i>Composite Structures</i> , 2022, 282, 115107.	5.8	11
22	A novel 3D composite structure with tunable Poisson's ratio and stiffness. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1565-1574.	1.5	10
23	Double lap adhesive joint with reduced stress concentration: Effect of slot. <i>Composite Structures</i> , 2018, 202, 635-642.	5.8	9
24	Design and analysis method of nonlinear helical springs using a combining technique: Finite element analysis, constrained Latin hypercube sampling and genetic programming. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 5917-5930.	2.1	9
25	Local bridging effect of fractured laminated glass with EVA based hybrid interlayers under weathering actions. <i>Construction and Building Materials</i> , 2022, 314, 125595.	7.2	8
26	Tensile Behavior of Low Density Thermally Bonded Nonwoven Material. <i>Journal of Engineered Fibers and Fabrics</i> , 2009, 4, 155892500900400.	1.0	7
27	Numerical Modelling on the Local Design of a Marine Bonded Composite Hose (MBCH) and Its Helix Reinforcement. <i>Journal of Composites Science</i> , 2022, 6, 79.	3.0	7
28	Advanced static and dynamic analysis method for helical springs of non-linear geometries. <i>Journal of Sound and Vibration</i> , 2021, 513, 116414.	3.9	6
29	Tailoring structure of inclusion with strain-induced closure to reduce Poisson's ratio of composite materials. <i>Journal of Applied Physics</i> , 2014, 115, 224903.	2.5	3
30	A Novel Self-Updating Design Method for Complex 3D Structures Using Combined Convolutional Neuron and Deep Convolutional Generative Adversarial Networks. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	2