

# Xiaofei Cao

## List of Publications by Year in descending order

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14  
papers

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citations

759233

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1058476

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Mechanical properties of an improved 3D-printed rhombic dodecahedron stainless steel lattice structure of variable cross section. <i>International Journal of Mechanical Sciences</i> , 2018, 145, 53-63.	6.7	187
2	Dynamic compressive behavior of a modified additively manufactured rhombic dodecahedron 316L stainless steel lattice structure. <i>Thin-Walled Structures</i> , 2020, 148, 106586.	5.3	96
3	Compression experiment and numerical evaluation on mechanical responses of the lattice structures with stochastic geometric defects originated from additive-manufacturing. <i>Composites Part B: Engineering</i> , 2020, 194, 108030.	12.0	83
4	Numerical and experimental studies on compressive behavior of Gyroid lattice cylindrical shells. <i>Materials and Design</i> , 2020, 186, 108340.	7.0	70
5	In-situ synchrotron X-ray tomography investigation of the imperfect smooth-shell cylinder structure. <i>Composite Structures</i> , 2021, 267, 113926.	5.8	39
6	An experimental study on dynamic response of polyurea coated metal plates under intense underwater impulsive loading. <i>International Journal of Impact Engineering</i> , 2019, 133, 103361.	5.0	38
7	Numerical analysis of the mechanical behavior and energy absorption of a novel P-lattice. <i>Thin-Walled Structures</i> , 2020, 157, 107147.	5.3	35
8	Deformation behavior and band gap switching function of 4D printed multi-stable metamaterials. <i>Materials and Design</i> , 2021, 200, 109481.	7.0	30
9	Mechanical performance and defect analysis of the imperfect micro smooth gyroid cylinder shell structure. <i>Composite Structures</i> , 2021, 273, 114320.	5.8	23
10	Effects of the standoff distance on hull structure damage subjected to near-field underwater explosion. <i>Marine Structures</i> , 2020, 74, 102839.	3.8	19
11	Numerical and theoretical analysis of the dynamic mechanical behaviour of a modified rhombic dodecahedron lattice structure. <i>International Journal of Mechanics and Materials in Design</i> , 2021, 17, 271-283.	3.0	15
12	Mechanical properties of bio-molecular inspired MnL2n cage-lattices: Simulations & experiments. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 826, 141991.	5.6	14
13	Deformation mechanisms and mechanical performances of architected mechanical metamaterials with gyroid topologies: Synchrotron X-ray radiation in-situ compression experiments and 3D image based finite element analysis. <i>Extreme Mechanics Letters</i> , 2021, 44, 101229.	4.1	13
14	Response of seated human subject to ship structure motion caused by the combined effect of shock wave and bubble pulsation. <i>Journal of Biomechanics</i> , 2021, 127, 110666.	2.1	4