

Heng Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Geometry and size optimization of stiffener layout for three-dimensional box structures with maximization of natural frequencies. Chinese Journal of Aeronautics, 2023, 36, 324-341.	5.3	1
2	Simultaneous optimization of structure together with attached tuned mass dampers considering dynamic performance. Chinese Journal of Aeronautics, 2022, 35, 128-140.	5.3	1
3	Concurrent Topology Optimization of Composite Plates for Minimum Dynamic Compliance. Materials, 2022, 15, 538.	2.9	1
4	Optimum design and thermal modeling for 2D and 3D natural convection problems incorporating level set-based topology optimization with body-fitted mesh. International Journal for Numerical Methods in Engineering, 2022, 123, 1954-1990.	2.8	18
5	Design optimization of functionally graded lattice infill total hip arthroplasty stem for stress shielding reduction. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 515-525.	1.8	5
6	3D printed tubular lattice metamaterials for mechanically robust stents. Composites Part B: Engineering, 2022, 236, 109809.	12.0	30
7	Robust topology optimization of biodegradable composite structures under uncertain degradation rates. Composite Structures, 2022, 291, 115593.	5.8	2
8	Simultaneous optimization of stiffener layout of 3D box structure together with attached tuned mass dampers under harmonic excitations. Structural and Multidisciplinary Optimization, 2021, 64, 721.	3.5	8
9	Topology optimization of degradable composite structures with time-changeable stiffness. International Journal for Numerical Methods in Engineering, 2021, 122, 4751-4773.	2.8	4
10	Topology optimization of composite macrostructures comprising multi-phase viscoelastic composite microstructures for enhanced structural damping. Composite Structures, 2021, 278, 114712.	5.8	12
11	Bi-material microstructural design of biodegradable composites using topology optimization. Materials and Design, 2021, 209, 109973.	7.0	9
12	Topology optimization of fiber-reinforced materials for dynamic problems. Transactions of the JSME (in Japanese), 2021, 87, 21-00234-21-00234.	0.2	0
13	Topology optimization of composite material with high broadband damping. Computers and Structures, 2020, 239, 106331.	4.4	19
14	Improved adaptive growth method of stiffeners for three-dimensional box structures with respect to natural frequencies. Computers and Structures, 2020, 239, 106330.	4.4	14
15	Multi-scale structural topology optimization of free-layer damping structures with damping composite materials. Composite Structures, 2019, 212, 609-624.	5.8	37
16	Optimal topology design of internal stiffeners for machine pedestal structures using biological branching phenomena. Structural and Multidisciplinary Optimization, 2018, 57, 2323-2338.	3.5	27