Heng Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/19026/publications.pdf

Version: 2024-02-01

16 papers	188 citations	1307594 7 h-index	1125743 13 g-index
16 all docs	16 docs citations	16 times ranked	79 citing authors

#	Article	IF	Citations
1	Multi-scale structural topology optimization of free-layer damping structures with damping composite materials. Composite Structures, 2019, 212, 609-624.	5.8	37
2	3D printed tubular lattice metamaterials for mechanically robust stents. Composites Part B: Engineering, 2022, 236, 109809.	12.0	30
3	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
4	Topology optimization of composite material with high broadband damping. Computers and Structures, 2020, 239, 106331.	4.4	19
5	Optimum design and thermal modeling for 2D and 3D natural convection problems incorporating level setâ€based topology optimization with bodyâ€fitted mesh. International Journal for Numerical Methods in Engineering, 2022, 123, 1954-1990.	2.8	18
6	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
7	Topology optimization of composite macrostructures comprising multi-phase viscoelastic composite microstructures for enhanced structural damping. Composite Structures, 2021, 278, 114712.	5.8	12
8	Bi-material microstructural design of biodegradable composites using topology optimization. Materials and Design, 2021, 209, 109973.	7.0	9
9	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
10	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
11	Topology optimization of degradable composite structures with timeâ€changeable stiffness. International Journal for Numerical Methods in Engineering, 2021, 122, 4751-4773.	2.8	4
12	Robust topology optimization of biodegradable composite structures under uncertain degradation rates. Composite Structures, 2022, 291, 115593.	5.8	2
13	Simultaneous optimization of structure together with attached tuned mass dampers considering dynamic performance. Chinese Journal of Aeronautics, 2022, 35, 128-140.	5.3	1
14	Concurrent Topology Optimization of Composite Plates for Minimum Dynamic Compliance. Materials, 2022, 15, 538.	2.9	1
15	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
16	Topology optimization of fiber-reinforced materials for dynamic problems. Transactions of the JSME (in Japanese), 2021, 87, 21-00234-21-00234.	0.2	0