Zunyi Duan

List of Publications by Year
in descending order

23 papers	247 citations	933447 10 h-index	996975 15 g-index
23 all docs	23 docs citations	23 times ranked	139 citing authors

#	Article	IF	Citations
1	Integrated optimization of the material and structure of composites based on the Heaviside penalization of discrete material model. Structural and Multidisciplinary Optimization, 2015, 51, 721-732.	3.5	45
2	Concurrent multi-scale design optimization of composite frames with manufacturing constraints. Structural and Multidisciplinary Optimization, 2017, 56, 519-533.	3.5	27
3	Topology optimization of material nonlinear continuum structures under stress constraints. Computer Methods in Applied Mechanics and Engineering, 2021, 378, 113731.	6.6	17
4	Stress-based multi-material structural topology optimization considering graded interfaces. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114602.	6.6	17
5	Discrete material selection and structural topology optimization of composite frames for maximum fundamental frequency with manufacturing constraints. Structural and Multidisciplinary Optimization, 2019, 60, 1741-1758.	3.5	15
6	Clustering-based multiscale topology optimization of thermo-elastic lattice structures. Computational Mechanics, 2020, 66, 979-1002.	4.0	15
7	Reliability-based multi-scale design optimization of composite frames considering structural compliance and manufacturing constraints. Structural and Multidisciplinary Optimization, 2020, 61, 2401-2421.	3.5	14
8	Integrated design optimization of composite frames and materials for maximum fundamental frequency with continuous fiber winding angles. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 1084-1094.	3.4	12
9	A two-step optimization scheme based on equivalent stiffness parameters for forcing convexity of fiber winding angle in composite frames. Structural and Multidisciplinary Optimization, 2019, 59, 2111-2129.	3.5	11
10	Minimum Compliance Optimization of a Thermoelastic Lattice Structure with Size-Coupled Effects. Journal of Thermal Stresses, 2015, 38, 338-357.	2.0	10
11	Structural topology optimization considering both performance and manufacturability: strength, stiffness, and connectivity. Structural and Multidisciplinary Optimization, 2021, 63, 1427-1453.	3.5	9
12	Stress-based bi-directional evolutionary structural topology optimization considering nonlinear continuum damage. Computer Methods in Applied Mechanics and Engineering, 2022, 396, 115086.	6.6	9
13	A multi-scale discrete material optimization model for optimization of structural topology and material orientations to minimize dynamic compliance. Structural and Multidisciplinary Optimization, 2021, 64, 1343-1365.	3.5	8
14	Concurrent multi-scale design optimization of composite frame structures using the Heaviside penalization of discrete material model. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 430-441.	3.4	7
15	Determination of sample size for input variables in RBDO through bi-objective confidence-based design optimization under input model uncertainty. Structural and Multidisciplinary Optimization, 2020, 61, 253-266.	3.5	7
16	Topology optimization of thermoâ€elastic structures considering stiffness, strength, and temperature constraintsÂover a wide range of temperatures. International Journal for Numerical Methods in Engineering, 2022, 123, 1627-1653.	2.8	6
17	A new method for concurrent multi-scale design optimization of fiber-reinforced composite frames with fundamental frequency constraints. Structural and Multidisciplinary Optimization, 2021, 64, 3773-3795.	3.5	5
18	Concurrent design of the free damping structure for minimizing the frequency response in a broad frequency band. Engineering Optimization, 2022, 54, 1273-1288.	2.6	3

#	Article	IF	Citations
19	Structural Topology Design Optimization of Fiber-Reinforced Composite Frames with Fundamental Frequency Constraints. Journal of Structural Engineering, 2022, 148, .	3.4	3
20	Stressâ€related topology optimization for castable design. International Journal for Numerical Methods in Engineering, 2021, 122, 6203.	2.8	2
21	A cascadic multilevel optimization framework for the concurrent design of the fiber-reinforced composite structure through the NURBS surface. Engineering With Computers, 2023, 39, 2735-2756.	6.1	2
22	A study on topology optimization of heat dissipation structures with different objective functions based on an explicit moving morphable components method. Engineering Optimization, 2023, 55, 1336-1351.	2.6	2
23	Optimal design of laminated plate for minimizing frequency response based on discrete material model and mode reduction method. Engineering With Computers, 2022, 38, 2919-2951.	6.1	1