

Bin Xu

List of Publications by Year in descending order

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280
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#	ARTICLE	IF	CITATIONS
1	A cascadic multilevel optimization framework for the concurrent design of the fiber-reinforced composite structure through the NURBS surface. <i>Engineering With Computers</i> , 2023, 39, 2735-2756.	3.5	2
2	Material microstructure topology optimization of piezoelectric composite beam under initial disturbance for vibration suppression. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 1364-1378.	1.5	5
3	Concurrent design of the free damping structure for minimizing the frequency response in a broad frequency band. <i>Engineering Optimization</i> , 2022, 54, 1273-1288.	1.5	3
4	Optimal design of laminated plate for minimizing frequency response based on discrete material model and mode reduction method. <i>Engineering With Computers</i> , 2022, 38, 2919-2951.	3.5	1
5	Topology optimization of thermo-elastic structures considering stiffness, strength, and temperature constraints over a wide range of temperatures. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 1627-1653.	1.5	6
6	Stress-based topology optimization of continuum structures for the elastic contact problems with friction. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, 54.	1.7	6
7	Stress-based multi-material structural topology optimization considering graded interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114602.	3.4	17
8	Stress-based bi-directional evolutionary structural topology optimization considering nonlinear continuum damage. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 396, 115086.	3.4	9
9	Size-dependent two-scale topological design for maximizing structural fundamental eigenfrequency. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 2600-2615.	1.5	1
10	Topological optimization of continuum structures for additive manufacturing considering thin feature and support structure constraints. <i>Engineering Optimization</i> , 2021, 53, 2122-2143.	1.5	15
11	Bi-directional evolutionary stress-based topology optimization of material nonlinear structures. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1287-1305.	1.7	11
12	Concurrent design of composite macrostructure and cellular microstructure with respect to dynamic stress response under random excitations. <i>Composite Structures</i> , 2021, 257, 113123.	3.1	6
13	Structural topology optimization considering both performance and manufacturability: strength, stiffness, and connectivity. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1427-1453.	1.7	9
14	An efficient 137-line MATLAB code for geometrically nonlinear topology optimization using bi-directional evolutionary structural optimization method. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 2571-2588.	1.7	22
15	Thermo-elastic topology optimization with stress and temperature constraints. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 2919-2944.	1.5	12
16	A multi-scale discrete material optimization model for optimization of structural topology and material orientations to minimize dynamic compliance. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 1343-1365.	1.7	8
17	Topology optimization of material nonlinear continuum structures under stress constraints. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 378, 113731.	3.4	17
18	Bi-directional evolutionary topology optimization of continuum structures subjected to inertial loads. <i>Advances in Engineering Software</i> , 2021, 155, 102897.	1.8	17

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19	Electro-thermal-mechanical modeling of quench and stress evolution triggered by various factors in high-temperature superconducting coils. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	11
20	Optimal design of vibrating composite plate considering discrete“continuous parameterization model and resonant peak constraint. <i>International Journal of Mechanics and Materials in Design</i> , 2021, 17, 679-705.	1.7	7
21	Stress“related topology optimization for castable design. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 6203.	1.5	2
22	Lightweight topology optimization of thermal structures under compliance, stress and temperature constraints. <i>Journal of Thermal Stresses</i> , 2021, 44, 1121-1149.	1.1	4
23	Controlling the maximum stress in structural stiffness topology optimization of geometrical and material nonlinear structures. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 3971-3998.	1.7	3
24	A new method for concurrent multi-scale design optimization of fiber-reinforced composite frames with fundamental frequency constraints. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 3773-3795.	1.7	5
25	A novel discrete“continuous material orientation optimization model for stiffness-based concurrent design of fiber composite. <i>Composite Structures</i> , 2021, 273, 114288.	3.1	17
26	Structural topological optimization with dynamic fatigue constraints subject to dynamic random loads. <i>Engineering Structures</i> , 2020, 205, 110089.	2.6	18
27	Numerical study on the impact response of aircraft fuselage structures subjected to large-size tire fragment. <i>Science Progress</i> , 2020, 103, 003685041987774.	1.0	4
28	Bi-directional evolutionary topology optimization of geometrically nonlinear continuum structures with stress constraints. <i>Applied Mathematical Modelling</i> , 2020, 80, 771-791.	2.2	44
29	Topology optimization of cast parts considering parting surface position. <i>Advances in Engineering Software</i> , 2020, 149, 102886.	1.8	11
30	Numerical performance of Poisson method for restricting enclosed voids in topology optimization. <i>Computers and Structures</i> , 2020, 239, 106337.	2.4	17
31	Stress constrained thermo-elastic topology optimization based on stabilizing control schemes. <i>Journal of Thermal Stresses</i> , 2020, 43, 1040-1068.	1.1	16
32	Continuum structural topological optimization with dynamic stress response constraints. <i>Advances in Engineering Software</i> , 2020, 148, 102834.	1.8	16
33	Topology optimization of continuum structures under hybrid additive-subtractive manufacturing constraints. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 2571-2595.	1.7	31
34	Research on the Blow-Off Impulse Effect of a Composite Reinforced Panel Subjected to Lightning Strike. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1168.	1.3	10
35	Topology optimization of dynamic stress response reliability of continuum structures involving multi-phase materials. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 851-876.	1.7	9
36	Study on vibration of dragon wash basin and free surface waves inside. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 15-23.	1.5	2

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37	Topology optimization of continuum structures for natural frequencies considering casting constraints. <i>Engineering Optimization</i> , 2019, 51, 941-960.	1.5	25
38	Topology optimization of continuum structures with uncertain-but-bounded parameters for maximum non-probabilistic reliability of frequency requirement. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 2557-2566.	1.5	12
39	Optimal design of material microstructure for maximizing damping dissipation velocity of piezoelectric composite beam. <i>International Journal of Mechanical Sciences</i> , 2017, 128-129, 527-540.	3.6	17
40	Dynamic response reliability based topological optimization of continuum structures involving multi-phase materials. <i>Composite Structures</i> , 2016, 149, 134-144.	3.1	16
41	Concurrent design of composite macrostructure and multi-phase material microstructure for minimum dynamic compliance. <i>Composite Structures</i> , 2015, 128, 221-233.	3.1	52
42	Concurrent design of composite macrostructure and cellular microstructure under random excitations. <i>Composite Structures</i> , 2015, 123, 65-77.	3.1	44
43	Integrated optimization of structural topology and control for piezoelectric smart trusses with interval variables. <i>JVC/Journal of Vibration and Control</i> , 2014, 20, 576-588.	1.5	8