

List of Publications by Year in descending order

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RIN YU

#	Article	IF	CITATIONS
1	Concurrent design of composite macrostructure and multi-phase material microstructure for minimum dynamic compliance. Composite Structures, 2015, 128, 221-233.	5.8	52
2	Concurrent design of composite macrostructure and cellular microstructure under random excitations. Composite Structures, 2015, 123, 65-77.	5.8	44
3	Bi-directional evolutionary topology optimization of geometrically nonlinear continuum structures with stress constraints. Applied Mathematical Modelling, 2020, 80, 771-791.	4.2	44
4	Topology optimization of continuum structures under hybrid additive-subtractive manufacturing constraints. Structural and Multidisciplinary Optimization, 2019, 60, 2571-2595.	3.5	31
5	Topology optimization of continuum structures for natural frequencies considering casting constraints. Engineering Optimization, 2019, 51, 941-960.	2.6	25
6	An efficient 137-line MATLAB code for geometrically nonlinear topology optimization using bi-directional evolutionary structural optimization method. Structural and Multidisciplinary Optimization, 2021, 63, 2571-2588.	3.5	22
7	Structural topological optimization with dynamic fatigue constraints subject to dynamic random loads. Engineering Structures, 2020, 205, 110089.	5.3	18
8	Optimal design of material microstructure for maximizing damping dissipation velocity of piezoelectric composite beam. International Journal of Mechanical Sciences, 2017, 128-129, 527-540.	6.7	17
9	Numerical performance of Poisson method for restricting enclosed voids in topology optimization. Computers and Structures, 2020, 239, 106337.	4.4	17
10	Topology optimization of material nonlinear continuum structures under stress constraints. Computer Methods in Applied Mechanics and Engineering, 2021, 378, 113731.	6.6	17
11	Bi-directional evolutionary topology optimization of continuum structures subjected to inertial loads. Advances in Engineering Software, 2021, 155, 102897.	3.8	17
12	A novel discrete–continuous material orientation optimization model for stiffness-based concurrent design of fiber composite. Composite Structures, 2021, 273, 114288.	5.8	17
13	Stress-based multi-material structural topology optimization considering graded interfaces. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114602.	6.6	17
14	Dynamic response reliability based topological optimization of continuum structures involving multi-phase materials. Composite Structures, 2016, 149, 134-144.	5.8	16
15	Stress constrained thermo-elastic topology optimization based on stabilizing control schemes. Journal of Thermal Stresses, 2020, 43, 1040-1068.	2.0	16
16	Continuum structural topological optimization with dynamic stress response constraints. Advances in Engineering Software, 2020, 148, 102834.	3.8	16
17	Topological optimization of continuum structures for additive manufacturing considering thin feature and support structure constraints. Engineering Optimization, 2021, 53, 2122-2143.	2.6	15
18	Topology optimization of continuum structures with uncertain-but-bounded parameters for maximum non-probabilistic reliability of frequency requirement. JVC/Journal of Vibration and Control, 2017, 23, 2557-2566.	2.6	12

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19	Thermoâ€elastic topology optimization with stress and temperature constraints. International Journal for Numerical Methods in Engineering, 2021, 122, 2919-2944.	2.8	12
20	Topology optimization of cast parts considering parting surface position. Advances in Engineering Software, 2020, 149, 102886.	3.8	11
21	Bi-directional evolutionary stress-based topology optimization of material nonlinear structures. Structural and Multidisciplinary Optimization, 2021, 63, 1287-1305.	3.5	11
22	Electro-thermal-mechanical modeling of quench and stress evolution triggered by various factors in high-temperature superconducting coils. Journal of Applied Physics, 2021, 129, .	2.5	11
23	Research on the Blow-Off Impulse Effect of a Composite Reinforced Panel Subjected to Lightning Strike. Applied Sciences (Switzerland), 2019, 9, 1168.	2.5	10
24	Topology optimization of dynamic stress response reliability of continuum structures involving multi-phase materials. Structural and Multidisciplinary Optimization, 2019, 59, 851-876.	3.5	9
25	Structural topology optimization considering both performance and manufacturability: strength, stiffness, and connectivity. Structural and Multidisciplinary Optimization, 2021, 63, 1427-1453.	3.5	9
26	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
27	Integrated optimization of structural topology and control for piezoelectric smart trusses with interval variables. JVC/Journal of Vibration and Control, 2014, 20, 576-588.	2.6	8
28	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
29	Optimal design of vibrating composite plate considering discrete–continuous parameterization model and resonant peak constraint. International Journal of Mechanics and Materials in Design, 2021, 17, 679-705.	3.0	7
30	Concurrent design of composite macrostructure and cellular microstructure with respect to dynamic stress response under random excitations. Composite Structures, 2021, 257, 113123.	5.8	6
31	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
32	Stress-based topology optimization of continuum structures for the elastic contact problems with friction. Structural and Multidisciplinary Optimization, 2022, 65, 54.	3.5	6
33	Material microstructure topology optimization of piezoelectric composite beam under initial disturbance for vibration suppression. JVC/Journal of Vibration and Control, 2022, 28, 1364-1378.	2.6	5
34	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
35	Numerical study on the impact response of aircraft fuselage structures subjected to large-size tire fragment. Science Progress, 2020, 103, 003685041987774.	1.9	4
36	Lightweight topology optimization of thermal structures under compliance, stress and temperature constraints. Journal of Thermal Stresses, 2021, 44, 1121-1149.	2.0	4

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#	Article	IF	CITATIONS
37	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
38	Controlling the maximum stress in structural stiffness topology optimization of geometrical and material nonlinear structures. Structural and Multidisciplinary Optimization, 2021, 64, 3971-3998.	3.5	3
39	Study on vibration of dragon wash basin and free surface waves inside. Acta Mechanica Sinica/Lixue Xuebao, 2019, 35, 15-23.	3.4	2
40	Stressâ€related topology optimization for castable design. International Journal for Numerical Methods in Engineering, 2021, 122, 6203.	2.8	2
41	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
42	Size-dependent two-scale topological design for maximizing structural fundamental eigenfrequency. JVC/Journal of Vibration and Control, 2021, 27, 2600-2615.	2.6	1
43	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