

Xiaojia Shelly Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18
papers

161
citations

6
h-index

12
g-index

18
ext. papers

255
ext. citations

4.1
avg, IF

3.85
L-index

#	Paper	IF	Citations
18	Multi-material topology optimization with multiple volume constraints: a general approach applied to ground structures with material nonlinearity. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 161-182	3.6	46
17	Material nonlinear topology optimization using the ground structure method with a discrete filtering scheme. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 55, 2045-2072	3.6	31
16	Stochastic sampling for deterministic structural topology optimization with many load cases: Density-based and ground structure approaches. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 325, 463-487	5.7	23
15	Multimaterial topology optimization with multiple volume constraints: Combining the ZPR update with a ground-structure algorithm to select a single material per overlapping set. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 114, 1053-1073	2.4	14
14	Adaptive multi-material topology optimization with hyperelastic materials under large deformations: A virtual element approach. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 370, 112976	5.7	11
13	A comprehensive review of educational articles on structural and multidisciplinary optimization. <i>Structural and Multidisciplinary Optimization</i> , 1	3.6	10
12	Design of graded porous bone-like structures via a multi-material topology optimization approach. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 64, 677	3.6	5
11	Efficient multi-material continuum topology optimization considering hyperelasticity: Achieving local feature control through regional constraints. <i>Mechanics Research Communications</i> , 2020 , 105, 103494	3.2	4
10	Topology Optimization With Many Right-Hand Sides Using Mirror Descent Stochastic Approximation Reduction From Many to a Single Sample. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020 , 87,	2.7	3
9	Momentum-based accelerated mirror descent stochastic approximation for robust topology optimization under stochastic loads. <i>International Journal for Numerical Methods in Engineering</i> , 2021 , 122, 4431-4457	2.4	3
8	Design of composite structures with programmable elastic responses under finite deformations. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 151, 104356	5	3
7	Topology optimization of hyperelastic structures with anisotropic fiber reinforcement under large deformations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 378, 113496	5.7	2
6	Additive Manufacturing of Topology-Optimized Graded Porous Structures: An Experimental Study. <i>Jom</i> , 2021 , 73, 2022-2030	2.1	2
5	Digital synthesis of free-form multimaterial structures for realization of arbitrary programmed mechanical responses.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2120563119	11.5	2
4	Topology optimization of hard-magnetic soft materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 158, 104628	5	1
3	Paved guideway topology optimization for pedestrian traffic under Nash equilibrium. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 63, 1405-1426	3.6	1
2	Multimaterial stress-constrained topology optimization with multiple distinct yield criteria. <i>Extreme Mechanics Letters</i> , 2022 , 101716	3.9	0

- 1 Closure to Macroelement and Macropatch Approaches to Structural Topology Optimization Using the Ground Structure Method by Xiaojia Zhang, Sushant Maheshwari, Adeildo S. Ramos Jr., and Glaucio H. Paulino. *Journal of Structural Engineering*, **2018**, 144, 07018009 3