Yiqiang Wang

List of Publications by Year
in descending order

25	1,709	331642	610883
papers	citations	21	24
		h-index	g-index

25	25	25	1159
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plate microstructures with extreme stiffness for arbitrary multi-loadings. Computer Methods in Applied Mechanics and Engineering, 2021, 381, 113778.	6.6	8
2	Isotropic â€œQuasiâ€Fluidâ€•Metamaterials Designed by Topology Optimization. Advanced Theory and Simulations, 2020, 3, 1900182.	2.8	16
3	Automatic Design of Soft Dielectric Elastomer Actuators With Optimal Spatial Electric Fields. IEEE Transactions on Robotics, 2019, 35, 1150-1165.	10.3	60
4	Simple optimal lattice structures for arbitrary loadings. Extreme Mechanics Letters, 2019, 29, 100447.	4.1	25
5	Efficient structure topology optimization by using the multiscale finite element method. Structural and Multidisciplinary Optimization, 2018, 58, 1411-1430.	3.5	31
6	Topology Optimized Design, Fabrication, and Characterization of a Soft Cable-Driven Gripper. IEEE Robotics and Automation Letters, 2018, 3, 2463-2470.	5.1	96
7	Buckling optimization of Kagome lattice cores with free-form trusses. Materials and Design, 2018, 145, 144-155.	7.0	37
8	Design of graded lattice structure with optimized mesostructures for additive manufacturing. Materials and Design, 2018, 142, 114-123.	7.0	209
9	On two-step design of microstructure with desired Poisson's ratio for AM. Materials and Design, 2018, 159, 90-102.	7.0	37
10	Concurrent design with connectable graded microstructures. Computer Methods in Applied Mechanics and Engineering, 2017, 317, 84-101.	6.6	152
11	Topology optimization of hyperelastic structures using a level set method. Journal of Computational Physics, 2017, 351, 437-454.	3.8	29
12	Design and development of a soft gripper with topology optimization. , 2017, , .		34
13	Structural topology optimization with minimum distance control of multiphase embedded components by level set method. Computer Methods in Applied Mechanics and Engineering, 2016, 306, 299-318.	6.6	38
14	Structure-material integrated design by level sets. Structural and Multidisciplinary Optimization, 2016, 54, 1145-1156.	3.5	53
15	Length scale control for structural optimization by level sets. Computer Methods in Applied Mechanics and Engineering, 2016, 305, 891-909.	6.6	38
16	A multi-material level set-based topology and shape optimization method. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 1570-1586.	6.6	208
17	Topological design of compliant smart structures with embedded movable actuators. Smart Materials and Structures, 2014, 23, 045024.	3.5	59
18	Topological shape optimization of microstructural metamaterials using a level set method. Computational Materials Science, 2014, 87, 178-186.	3.0	151

#	Article	IF	Citations
19	A topology optimization method for geometrically nonlinear structures with meshless analysis and independent density field interpolation. Computational Mechanics, 2014, 54, 629-644.	4.0	47
20	Adaptive topology optimization with independent error control for separated displacement and density fields. Computers and Structures, 2014, 135, 50-61.	4.4	55
21	An adaptive refinement approach for topology optimization based on separated density field description. Computers and Structures, 2013, 117, 10-22.	4.4	71
22	Integrated topology optimization with embedded movable holes based on combined description by material density and level sets. Computer Methods in Applied Mechanics and Engineering, 2013, 255, 1-13.	6.6	71
23	A nodal variable method of structural topology optimization based on Shepard interpolant. International Journal for Numerical Methods in Engineering, 2012, 90, 329-342.	2.8	55
24	Structural topology optimization based on non-local Shepard interpolation of density field. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3515-3525.	6.6	125
25	Topology design of slender piezoelectric actuators with repetitive component patterns. Journal of Intelligent Material Systems and Structures, 2011, 22, 2161-2172.	2.5	4