

Mingdong Zhou

List of Publications by Year in descending order

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papers

1,012
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471371

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times ranked

762
citing authors

#	ARTICLE	IF	CITATIONS
1	Concurrent topology optimization of shells with self-supporting infills for additive manufacturing. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 390, 114430.	3.4	11
2	Topology optimization of self-supporting infill structures. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 2289-2304.	1.7	17
3	Multi-scale and multi-material topology optimization of channel-cooling cellular structures for thermomechanical behaviors. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 383, 113896.	3.4	19
4	Elastically-isotropic open-cell minimal surface shell lattices with superior stiffness via variable thickness design. <i>Additive Manufacturing</i> , 2021, 47, 102293.	1.7	9
5	Stress-based shape and topology optimization with cellular level set in B-splines. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 2391-2407.	1.7	9
6	Topology optimization of easy-removal support structures for additive manufacturing. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 2423-2435.	1.7	24
7	Lightweight Splint Design for Individualized Treatment of Distal Radius Fracture. <i>Journal of Medical Systems</i> , 2019, 43, 284.	2.2	13
8	VCUT level set method for topology optimization of functionally graded cellular structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 354, 487-505.	3.4	43
9	Topology optimization of thermal conductive support structures for laser additive manufacturing. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 353, 24-43.	3.4	69
10	Cellular level set in B-splines (CLIBS): A method for modeling and topology optimization of cellular structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 349, 378-404.	3.4	29
11	Topology optimization of channel cooling structures considering thermomechanical behavior. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 613-632.	1.7	22
12	New analysis model for rotor-bearing systems based on plate theory. <i>Frontiers of Mechanical Engineering</i> , 2019, 14, 461-473.	2.5	1
13	A "poor man's" approach to topology optimization of cooling channels based on a Darcy flow model. <i>International Journal of Heat and Mass Transfer</i> , 2018, 116, 1108-1123.	2.5	89
14	Shape morphing and topology optimization of fluid channels by explicit boundary tracking. <i>International Journal for Numerical Methods in Fluids</i> , 2018, 88, 296-313.	0.9	27
15	Topology optimization for optical microlithography with partially coherent illumination. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 109, 631-647.	1.5	9
16	On fully stressed design and p-norm measures in structural optimization. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 731-736.	1.7	31
17	Industrial application of topology optimization for combined conductive and convective heat transfer problems. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 1045-1060.	1.7	83
18	Minimum length scale in topology optimization by geometric constraints. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 293, 266-282.	3.4	275

#	ARTICLE	IF	CITATIONS
19	Topology optimization of reinforced concrete structures considering control of shrinkage and strength failure. Computers and Structures, 2015, 157, 31-41.	2.4	16
20	Simultaneous parameter and tolerance optimization of structures via probability-interval mixed reliability model. Structural and Multidisciplinary Optimization, 2015, 51, 705-719.	1.7	9
21	Topology optimization for optical projection lithography with manufacturing uncertainties. Applied Optics, 2014, 53, 2720.	0.9	34
22	Reliability based topology optimization for continuum structures with local failure constraints. Computers and Structures, 2014, 143, 73-84.	2.4	47
23	Parametric structural optimization with dynamic knot RBFs and partition of unity method. Structural and Multidisciplinary Optimization, 2013, 47, 353-365.	1.7	19
24	Engineering feature design for level set based structural optimization. CAD Computer Aided Design, 2013, 45, 1524-1537.	1.4	41
25	Engineered Model Simplification for Simulation Based Structural Design. Computer-Aided Design and Applications, 2012, 9, 87-94.	0.4	8
26	A semi-Lagrangian level set method for structural optimization. Structural and Multidisciplinary Optimization, 2012, 46, 487-501.	1.7	18
27	Optimal topology design of steel-concrete composite structures under stiffness and strength constraints. Computers and Structures, 2012, 112-113, 433-444.	2.4	17
28	Structural Optimization Using Adaptive Level Set Method. , 2012, , .		1
29	Shape-constrained flock animation. Computer Animation and Virtual Worlds, 2008, 19, 319-330.	0.7	22