

Xiao Mi

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

91
papers

1,825
citations

25
h-index

39
g-index

99
ext. papers

2,444
ext. citations

4.2
avg, IF

5.98
L-index

#	Paper	IF	Citations
91	A multiscale topological design method of geometrically asymmetric porous sandwich structures for minimizing dynamic compliance. <i>Materials and Design</i> , 2022 , 214, 110404	8.1	2
90	Isogeometric topology and shape optimization for composite structures using level-sets and adaptive Gauss quadrature. <i>Composite Structures</i> , 2022 , 285, 115263	5.3	1
89	Kriging-assisted design of functionally graded cellular structures with smoothly-varying lattice unit cells. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 390, 114466	5.7	4
88	Quantile-based topology optimization under uncertainty using Kriging metamodel. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 393, 114690	5.7	0
87	Marching cubes-based isogeometric topology optimization method with parametric level set. <i>Applied Mathematical Modelling</i> , 2022 , 107, 275-295	4.5	0
86	Robustly printable freeform thermal metamaterials. <i>Nature Communications</i> , 2021 , 12, 7228	17.4	8
85	Optimization for Liquid Cooling Cylindrical Battery Thermal Management System Based on Gaussian Process Model. <i>Journal of Thermal Science and Engineering Applications</i> , 2021 , 13,	1.9	9
84	A new level set based multi-material topology optimization method using alternating active-phase algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 377, 113674	5.7	7
83	A Computational Fluid Dynamics Coupled Multi-Objective Optimization Framework for Thermal System Design for Li-Ion Batteries With Metal Separators. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021 , 18,	2	4
82	A Kriging-assisted sampling method for reliability analysis of structures with hybrid uncertainties. <i>Reliability Engineering and System Safety</i> , 2021 , 210, 107552	6.3	3
81	A New Approach to Solve Uncertain Multidisciplinary Design Optimization Based on Conditional Value at Risk. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 18, 356-368	4.9	9
80	Inverse design of rotating metadvice for adaptive thermal cloaking. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 176, 121417	4.9	8
79	An isogeometric approach to topological optimization design of auxetic composites with tri-material micro-architectures. <i>Composite Structures</i> , 2021 , 271, 114163	5.3	4
78	Design of graded lattice sandwich structures by multiscale topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 384, 113949	5.7	10
77	Robust topology optimization for fiber-reinforced composite structures under loading uncertainty. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 384, 113935	5.7	6
76	Robust topology optimization of thermoelastic metamaterials considering hybrid uncertainties of material property. <i>Composite Structures</i> , 2020 , 248, 112477	5.3	22
75	A new hybrid reliability-based design optimization method under random and interval uncertainties. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 4435-4457	2.4	19

74	Multidisciplinary robust design optimization considering parameter and metamodeling uncertainties. <i>Engineering With Computers</i> , 2020 , 1	4.5	10
73	A system active learning Kriging method for system reliability-based design optimization with a multiple response model. <i>Reliability Engineering and System Safety</i> , 2020 , 199, 106935	6.3	71
72	Sampling-based system reliability-based design optimization using composite active learning Kriging. <i>Computers and Structures</i> , 2020 , 239, 106321	4.5	4
71	Explicit topology optimization of novel polyline-based core sandwich structures using surrogate-assisted evolutionary algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 369, 113215	5.7	6
70	Isogeometric topology optimization for computational design of re-entrant and chiral auxetic composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 362, 112876	5.7	23
69	A NURBS-based Multi-Material Interpolation (N-MMI) for isogeometric topology optimization of structures. <i>Applied Mathematical Modelling</i> , 2020 , 81, 818-843	4.5	24
68	Maximizing natural frequencies of inhomogeneous cellular structures by Kriging-assisted multiscale topology optimization. <i>Computers and Structures</i> , 2020 , 230, 106197	4.5	56
67	A new local update-based method for reliability-based design optimization. <i>Engineering With Computers</i> , 2020 , 37, 3591	4.5	4
66	Heat Transfer Efficiency Enhancement of Lithium-Ion Battery Packs by Using Novel Design of Herringbone Fins. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020 , 17,	2	5
65	A Comprehensive Review of Isogeometric Topology Optimization: Methods, Applications and Prospects. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2020 , 33,	2.5	18
64	Multiscale topology optimization for coated structures with multifarious-microstructural infill. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 61, 1473-1494	3.6	10
63	Topological design of sandwich structures with graded cellular cores by multiscale optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 361, 112749	5.7	33
62	A hybrid sufficient performance measure approach to improve robustness and efficiency of reliability-based design optimization. <i>Engineering With Computers</i> , 2020 , 37, 1695	4.5	23
61	Risk-based design optimization under hybrid uncertainties. <i>Engineering With Computers</i> , 2020 , 1	4.5	0
60	Reliability Analysis of Stiffened Aircraft Panels Using Adjusting Mean Value Method. <i>AIAA Journal</i> , 2020 , 58, 5448-5458	2.1	6
59	Intelligent optimization methodology of battery pack for electric vehicles: A multidisciplinary perspective. <i>International Journal of Energy Research</i> , 2020 , 44, 9686-9706	4.5	10
58	An active learning Kriging-assisted method for reliability-based design optimization under distributional probability-box model. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 62, 2341-2356	3.6	8
57	A composite-projection-outline-based approximation method for system reliability analysis with hybrid uncertainties. <i>Reliability Engineering and System Safety</i> , 2020 , 204, 107169	6.3	4

56	Illusion thermotics with topology optimization. <i>Journal of Applied Physics</i> , 2020 , 128, 045106	2.5	13
55	Multidisciplinary robust design optimization under parameter and model uncertainties. <i>Engineering Optimization</i> , 2020 , 52, 426-445	2	13
54	Multiscale topology optimization for minimizing frequency responses of cellular composites with connectable graded microstructures. <i>Mechanical Systems and Signal Processing</i> , 2020 , 135, 106369	7.8	42
53	Isogeometric topology optimization for rational design of ultra-lightweight architected materials. <i>International Journal of Mechanical Sciences</i> , 2020 , 166, 105103	5.5	23
52	Robust topology optimization for multi-material structures under interval uncertainty. <i>Applied Mathematical Modelling</i> , 2020 , 78, 627-647	4.5	22
51	A bounding-limit-state-surface-based active learning Kriging method for hybrid reliability analysis under random and probability-box variables. <i>Mechanical Systems and Signal Processing</i> , 2019 , 134, 106310	7.8	4
50	A new method for reliability analysis of structures with mixed random and convex variables. <i>Applied Mathematical Modelling</i> , 2019 , 70, 206-220	4.5	17
49	Maximum variation analysis based analytical target cascading for multidisciplinary robust design optimization under interval uncertainty. <i>Advanced Engineering Informatics</i> , 2019 , 40, 81-92	7.4	16
48	An active learning reliability method combining Kriging constructed with exploration and exploitation of failure region and subset simulation. <i>Reliability Engineering and System Safety</i> , 2019 , 188, 90-102	6.3	62
47	Multi-objective design optimization for mini-channel cooling battery thermal management system in an electric vehicle. <i>International Journal of Energy Research</i> , 2019 , 43, 3668-3680	4.5	56
46	An effective method for quantifying and incorporating uncertainty in metamodel selection. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 1279-1291	1.6	1
45	Topology Optimization of Periodic Structures With Substructuring. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2019 , 141,	3	23
44	Topology optimization of material microstructures using energy-based homogenization method under specified initial material layout. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 677-693	1.6	11
43	Topology optimization of shell-infill structures using a distance regularized parametric level-set method. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 59, 249-262	3.6	20
42	A new multiscale topology optimization method for multiphase composite structures of frequency response with level sets. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 356, 116-144	5.7	28
41	A Comprehensive Approach for the Clustering of Similar-Performance Cells for the Design of a Lithium-Ion Battery Module for Electric Vehicles. <i>Engineering</i> , 2019 , 5, 795-802	9.7	35
40	Probability and interval hybrid reliability analysis based on adaptive local approximation of projection outlines using support vector machine. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019 , 34, 991-1009	8.4	48
39	An improved Q-learning based rescheduling method for flexible job-shops with machine failures 2019 ,		9

38	Conditional Value at Riskbased Multidisciplinary Robust Design Optimization 2019 ,		2
37	Concurrent topology optimization for cellular structures with nonuniform microstructures based on the kriging metamodel. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 59, 1273-1299	3.6	22
36	An efficient Kriging-based subset simulation method for hybrid reliability analysis under random and interval variables with small failure probability. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 59, 2077-2092	3.6	83
35	A set strategy approach for multidisciplinary robust design optimization under interval uncertainty. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401882038	1.2	3
34	A surrogate thermal modeling and parametric optimization of battery pack with air cooling for EVs. <i>Applied Thermal Engineering</i> , 2019 , 147, 90-100	5.8	72
33	A level setBased method for stress-constrained multimaterial topology optimization of minimizing a global measure of stress. <i>International Journal for Numerical Methods in Engineering</i> , 2019 , 117, 800-818	2.4	8
32	Design of shell-infill structures by a multiscale level set topology optimization method. <i>Computers and Structures</i> , 2019 , 212, 162-172	4.5	34
31	A combined projection-outline-based active learning Kriging and adaptive importance sampling method for hybrid reliability analysis with small failure probabilities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 344, 13-33	5.7	77
30	Design of sandwich panels with truss cores using explicit topology optimization. <i>Composite Structures</i> , 2019 , 210, 892-905	5.3	18
29	Improved collaboration pursuing method for multidisciplinary robust design optimization. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 59, 1949-1968	3.6	10
28	Topology optimization of multi-material structures with graded interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 346, 1096-1117	5.7	25
27	Robust topology optimization for periodic structures by combining sensitivity averaging with a semianalytical method. <i>International Journal for Numerical Methods in Engineering</i> , 2019 , 117, 475-497	2.4	8
26	A Hybrid Method for Density-Related Topology Optimization. <i>International Journal of Computational Methods</i> , 2019 , 16, 1850116	1.1	3
25	Topological shape optimization of 3D micro-structured materials using energy-based homogenization method. <i>Advances in Engineering Software</i> , 2018 , 116, 89-102	3.6	62
24	An Efficient Topology Optimization Method for Structures with Uniform Stress. <i>International Journal of Computational Methods</i> , 2018 , 15, 1850073	1.1	2
23	An improved two-stage framework of evidence-based design optimization. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 58, 1673-1693	3.6	31
22	Robust topology optimization considering load uncertainty based on a semi-analytical method. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 94, 3537-3551	3.2	4
21	A new method based on adaptive volume constraint and stress penalty for stress-constrained topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 1163-1185	3.6	20

20	Stress-based multi-material topology optimization of compliant mechanisms. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 113, 1021-1044	2.4	46
19	A novel projection outline based active learning method and its combination with Kriging metamodel for hybrid reliability analysis with random and interval variables. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 341, 32-52	5.7	94
18	Queuing search algorithm: A novel metaheuristic algorithm for solving engineering optimization problems. <i>Applied Mathematical Modelling</i> , 2018 , 63, 464-490	4.5	79
17	Multiscale concurrent topology optimization for cellular structures with multiple microstructures based on ordered SIMP interpolation. <i>Computational Materials Science</i> , 2018 , 155, 74-91	3.2	47
16	Support Vector enhanced Kriging for metamodeling with noisy data. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 1611-1623	3.6	5
15	Construction of nested maximin designs based on successive local enumeration and modified novel global harmony search algorithm. <i>Engineering Optimization</i> , 2017 , 49, 161-180	2	10
14	Homotopy method for inverse design of the bulbous bow of a container ship. <i>China Ocean Engineering</i> , 2017 , 31, 98-102	1.1	
13	A new vortex search algorithm with gradient-based approximation for optimization of the fore part of KCS container ship. <i>Journal of Marine Science and Technology</i> , 2017 , 22, 403-413	1.7	4
12	Topological shape optimization design of continuum structures via an effective level set method. <i>Cogent Engineering</i> , 2016 , 3, 1250430	1.5	2
11	An efficient method for reliability analysis under epistemic uncertainty based on evidence theory and support vector regression. <i>Journal of Engineering Design</i> , 2015 , 26, 340-364	1.8	31
10	A new methodology for multi-objective multidisciplinary design optimization problems based on game theory. <i>Expert Systems With Applications</i> , 2015 , 42, 1602-1612	7.8	35
9	Probabilistic analytical target cascading combined with Kriging metamodel for multidisciplinary robust design optimization 2015 ,		2
8	Modeling of the Feed-Motor Transient Current in End Milling by Using Varying-Coefficient Model. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-9	1.1	1
7	An Efficient Method for Structural Reliability Analysis Using Evidence Theory 2014 ,		2
6	Data Mining Techniques for Wireless Sensor Networks: A Survey. <i>International Journal of Distributed Sensor Networks</i> , 2013 , 9, 406316	1.7	43
5	Analysis of gene expression programming for approximation in engineering design. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 46, 399-413	3.6	28
4	A generalised collaborative optimisation method and its combination with kriging metamodels for engineering design. <i>Journal of Engineering Design</i> , 2012 , 23, 379-399	1.8	26
3	Comparison of Gene Expression Programming and Common Metamodeling Techniques in Engineering Design 2011 ,		1

2	DOE-Based Numerical Investigation on Factors Affecting Temperature Field during Line Heating. <i>Advanced Materials Research</i> , 2011 , 314-316, 620-625	0.5	2
1	An Approach Based on Enhanced Collaborative Optimization and Kriging Approximation in Multidisciplinary Design Optimization. <i>Advanced Materials Research</i> , 2010 , 118-120, 399-403	0.5	3