

Wenjie Zuo

List of Publications by Year in Descending Order

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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.

44 papers	871 citations	17 h-index	29 g-index
47 ext. papers	1,037 ext. citations	2.4 avg, IF	5.24 L-index

#	Paper	IF	Citations
44	Multi-objective optimization of automobile body frame considering weight, rigidity, and frequency for conceptual design. <i>Advances in Mechanical Engineering</i> , 2022 , 14, 168781322210784	1.2	0
43	Bridging Topological Results and Thin-Walled Frame Structures Considering Manufacturability. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2021 , 143,	3	7
42	Nonlinear dynamic topology optimization with explicit and smooth geometric outline via moving morphable components method. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 64, 2465	3.6	0
41	Bending collapse of treble rectangular thin-walled tubes and its application in conceptual design for automobile crashworthiness. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2021 , 235, 1269-1284	1.4	1
40	Hollow structural topology optimization to improve manufacturability using three-dimensional moving morphable bars. <i>Advances in Engineering Software</i> , 2021 , 152, 102955	3.6	2
39	Bounds for uncertain structural problems with large-range interval parameters. <i>Archive of Applied Mechanics</i> , 2021 , 91, 1157-1177	2.2	2
38	Slope hybrid reliability analysis considering the uncertainty of probability-interval using three-parameter Weibull distribution. <i>Natural Hazards</i> , 2021 , 105, 565-586	3	0
37	Topology optimization of thin-walled cross section using moving morphable components approach. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 63, 2159-2176	3.6	1
36	Static Response Analysis of Uncertain Structures With Large-Scale Unknown-But-Bounded Parameters. <i>International Journal of Applied Mechanics</i> , 2021 , 13, 2150004	2.4	4
35	Lightweight and maintainable rotary-wing UAV frame from configurable design to detailed design. <i>Advances in Mechanical Engineering</i> , 2021 , 13, 168781402110349	1.2	0
34	Lightweight Design of CFRP-Laminated Structures by Combining Microscopical Homogenization and Macroscopical Optimization. <i>International Journal of Automotive Technology</i> , 2021 , 22, 1427-1436	1.6	0
33	Structural Dynamic Modification Based on Combined Approximations Method. <i>E3S Web of Conferences</i> , 2021 , 252, 03032	0.5	
32	Equivalent substitution criteria of aluminum for steel and its application in automobile structures. <i>Advances in Mechanical Engineering</i> , 2020 , 12, 168781402091122	1.2	2
31	Reanalysis Method for Second Derivatives of Static Displacement. <i>International Journal of Computational Methods</i> , 2020 , 17, 1950056	1.1	2
30	Shape Optimization of Thin-Walled Cross Section for Automobile Body Considering Stamping Cost, Manufacturability and Structural Stiffness. <i>International Journal of Automotive Technology</i> , 2020 , 21, 503-512	1.6	9
29	Equivalent static displacements method for contact force optimization. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 62, 323-336	3.6	8
28	Analytical Sensitivity Analysis Method of Cross-Sectional Shape for Thin-Walled Automobile Frame Considering Global Performances. <i>International Journal of Automotive Technology</i> , 2020 , 21, 1207-1216	1.6	2

27	Hollow structural design in topology optimization via moving morphable component method. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 61, 187-205	3.6	38
26	Comparison of gradient and nongradient algorithms in the structural optimization course. <i>International Journal of Mechanical Engineering Education</i> , 2019 , 47, 275-290	0.6	3
25	Rollover crashworthiness analysis and optimization of bus frame for conceptual design. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 3363-3373	1.6	16
24	Bending collapse of dual rectangle thin-walled tubes for conceptual design. <i>Thin-Walled Structures</i> , 2019 , 135, 185-195	4.7	23
23	Lightweight design of bus frames from multi-material topology optimization to cross-sectional size optimization. <i>Engineering Optimization</i> , 2019 , 51, 961-977	2	17
22	Cross-sectional shape design of automobile structure considering rigidity and driver's field of view. <i>Advances in Engineering Software</i> , 2018 , 115, 161-167	3.6	11
21	Simplified crashworthiness method of automotive frame for conceptual design. <i>Thin-Walled Structures</i> , 2018 , 131, 324-335	4.7	44
20	Variable Cross-Section Rectangular Beam and Sensitivity Analysis for Lightweight Design of Bus Frame. <i>International Journal of Automotive Technology</i> , 2018 , 19, 1033-1040	1.6	8
19	EFESTS: Educational finite element software for truss structure [Part 3: Geometrically nonlinear static analysis. <i>International Journal of Mechanical Engineering Education</i> , 2017 , 45, 154-169	0.6	2
18	Cross-sectional shape optimisation for thin-walled beam crashworthiness with stamping constraints using genetic algorithm. <i>International Journal of Vehicle Design</i> , 2017 , 73, 76	2.4	36
17	Multi-material topology optimization using ordered SIMP interpolation. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 55, 477-491	3.6	203
16	Sensitivity reanalysis of vibration problem using combined approximations method. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 55, 1399-1405	3.6	17
15	Stress sensitivity analysis and optimization of automobile body frame consisting of rectangular tubes. <i>International Journal of Automotive Technology</i> , 2016 , 17, 843-851	1.6	21
14	Sensitivity reanalysis of static displacement using Taylor series expansion and combined approximate method. <i>Structural and Multidisciplinary Optimization</i> , 2016 , 53, 953-959	3.6	26
13	Cross-sectional shape design and optimization of automotive body with stamping constraints. <i>International Journal of Automotive Technology</i> , 2016 , 17, 1003-1011	1.6	20
12	Bi-level optimization for the cross-sectional shape of a thin-walled car body frame with static stiffness and dynamic frequency stiffness constraints. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015 , 229, 1046-1059	1.4	37
11	New Adaptive Technique of Kirsch Method for Structural Reanalysis. <i>AIAA Journal</i> , 2014 , 52, 486-495	2.1	17
10	A hybrid OCCA approach for fast and global truss optimization with frequency constraints. <i>Applied Soft Computing Journal</i> , 2014 , 14, 528-535	7.5	48

9	Component sensitivity analysis of conceptual vehicle body for lightweight design under static and dynamic stiffness demands. <i>International Journal of Vehicle Design</i> , 2014 , 66, 107	2.4	36
8	EFESTS: Educational finite element software for truss structure. Part II: Linear static analysis. <i>International Journal of Mechanical Engineering Education</i> , 2014 , 42, 307-319	0.6	4
7	EFESTS: Educational finite element software for truss structure. Part I: Preprocess. <i>International Journal of Mechanical Engineering Education</i> , 2014 , 42, 298-306	0.6	5
6	An object-oriented graphics interface design and optimization software for cross-sectional shape of automobile body. <i>Advances in Engineering Software</i> , 2013 , 64, 1-10	3.6	34
5	A hybrid Fox and Kirsch's reduced basis method for structural static reanalysis. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 46, 261-272	3.6	24
4	A complete development process of finite element software for body-in-white structure with semi-rigid beams in .NET framework. <i>Advances in Engineering Software</i> , 2012 , 45, 261-271	3.6	34
3	Fast structural optimization with frequency constraints by genetic algorithm using adaptive eigenvalue reanalysis methods. <i>Structural and Multidisciplinary Optimization</i> , 2011 , 43, 799-810	3.6	65
2	An adaptive reanalysis method for genetic algorithm with application to fast truss optimization. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2010 , 26, 225-234	2	42
1	Dynamic abuse testing of airbag system for passenger car under vehicle-road conditions and identification method for high-risk triggering items. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 095440702110375	1.4	