

Guilin Wen

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,174
citations

236833

25
h-index

243529

44
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71
all docs

71
docs citations

71
times ranked

1317
citing authors

#	ARTICLE	IF	CITATIONS
1	Crashworthiness analysis and optimization design of TPMS-filled structure. <i>International Journal of Crashworthiness</i> , 2022, 27, 1481-1498.	1.1	9
2	Eigenvectors-guided topology optimization to control the mode shape and suppress the vibration of the multi-material plate. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114560.	3.4	6
3	Crushing analysis and optimization for bio-inspired hierarchical 3D cellular structure. <i>Composite Structures</i> , 2022, 286, 115333.	3.1	14
4	Multi-resolution nonlinear topology optimization with enhanced computational efficiency and convergence. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	1.5	10
5	Design optimization of a novel bio-inspired 3D porous structure for crashworthiness. <i>Composite Structures</i> , 2021, 255, 112897.	3.1	56
6	Efficient, high-resolution topology optimization method based on convolutional neural networks. <i>Frontiers of Mechanical Engineering</i> , 2021, 16, 80-96.	2.5	23
7	Design, analysis and semi-active control of a quasi-zero stiffness vibration isolation system with six oblique springs. <i>Nonlinear Dynamics</i> , 2021, 106, 309-321.	2.7	27
8	Theoretical prediction and crashworthiness optimization of multi-cell polygonal tubes. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 190-219.	2.0	25
9	Crushing behavior and optimization of sheet-based 3D periodic cellular structures. <i>Composites Part B: Engineering</i> , 2020, 182, 107565.	5.9	109
10	The robust fail-safe topological designs based on the von Mises stress. <i>Finite Elements in Analysis and Design</i> , 2020, 171, 103376.	1.7	31
11	Ultra-wide band gap in a two-dimensional phononic crystal with hexagonal lattices. <i>Materials Today Communications</i> , 2020, 24, 100977.	0.9	9
12	An efficient multi-resolution topology optimization scheme for stiffness maximization and stress minimization. <i>Engineering Optimization</i> , 2020, , 1-21.	1.5	1
13	Coupled CFD/MBD Method for a Tilt Tri-rotor UAV in Conversion of Flight Modes. <i>International Journal of Computational Fluid Dynamics</i> , 2020, 34, 363-379.	0.5	0
14	An efficient evolutionary structural optimization method for multi-resolution designs. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 787-803.	1.7	13
15	Novel two-parameter dynamics of impact oscillators near degenerate grazing points. <i>International Journal of Non-Linear Mechanics</i> , 2020, 120, 103403.	1.4	24
16	A time-variant reliability analysis method for non-linear limit-state functions with the mixture of random and interval variables. <i>Engineering Structures</i> , 2020, 213, 110588.	2.6	23
17	Topological Design of a Lightweight Sandwich Aircraft Spoiler. <i>Materials</i> , 2019, 12, 3225.	1.3	16
18	Fabrication, dynamic properties and multi-objective optimization of a metal origami tube with Miura sheets. <i>Thin-Walled Structures</i> , 2019, 144, 106352.	2.7	39

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19	Degenerate grazing bifurcations in a three-degree-of-freedom impact oscillator. <i>Nonlinear Dynamics</i> , 2019, 97, 525-539.	2.7	17
20	Complex near-grazing dynamics in impact oscillators. <i>International Journal of Mechanical Sciences</i> , 2019, 156, 106-122.	3.6	24
21	An efficient evolutionary structural optimization method with smooth edges based on the game of building blocks. <i>Engineering Optimization</i> , 2019, 51, 2089-2108.	1.5	5
22	Suppression of grazing-induced instability in single degree-of-freedom impact oscillators. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 97-110.	1.9	12
23	Extending SORA method for reliability-based design optimization using probability and convex set mixed models. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 1163-1179.	1.7	35
24	An adaptive mesh-adjustment strategy for continuum topology optimization to achieve manufacturable structural layout. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 117, 1304-1322.	1.5	11
25	On sound insulation of pyramidal lattice sandwich structure. <i>Composite Structures</i> , 2019, 208, 385-394.	3.1	78
26	Multi-Objective Optimization Design of Functionally Graded Foam-Filled Graded-Thickness Tube Under Lateral Impact. <i>International Journal of Computational Methods</i> , 2019, 16, 1850088.	0.8	13
27	On the ensemble of metamodels with multiple regional optimized weight factors. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 245-263.	1.7	26
28	Robust topology optimization for continuum structures with random loads. <i>Engineering Computations</i> , 2018, 35, 710-732.	0.7	17
29	Continuum topology optimization considering uncertainties in load locations based on the cloud model. <i>Engineering Optimization</i> , 2018, 50, 1041-1060.	1.5	31
30	Optimisation for bending crashworthiness of functionally graded foam-filled cellular structure. <i>International Journal of Crashworthiness</i> , 2018, 23, 446-460.	1.1	13
31	An Efficient Topology Description Function Method Based on Modified Sigmoid Function. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-12.	0.6	2
32	Neimark-Sacker Bifurcations Near Degenerate Grazing Point in a Two Degree-of-Freedom Impact Oscillator. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018, 13, .	0.7	6
33	Hybrid Structural Reliability Analysis under Multisource Uncertainties Based on Universal Grey Numbers. <i>Shock and Vibration</i> , 2018, 2018, 1-7.	0.3	0
34	A Novel Design Framework for Structures/Materials with Enhanced Mechanical Performance. <i>Materials</i> , 2018, 11, 576.	1.3	14
35	A new MÃ—N-grid double-scroll chaotic attractors from Rucklidge chaotic system. <i>Optik</i> , 2017, 136, 27-35.	1.4	10
36	An Efficient Method for Topology Optimization of Continuum Structures in the Presence of Uncertainty in Loading Direction. <i>International Journal of Computational Methods</i> , 2017, 14, 1750054.	0.8	19

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37	Design optimization of a new W-beam guardrail for enhanced highway safety performance. <i>Advances in Engineering Software</i> , 2017, 112, 154-164.	1.8	27
38	To avoid unpractical optimal design without support. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 1589-1595.	1.7	7
39	Analytical determination for degenerate grazing bifurcation points in the single-degree-of-freedom impact oscillator. <i>Nonlinear Dynamics</i> , 2017, 90, 443-456.	2.7	24
40	Generation of grid multi-scroll chaotic attractors via hyperbolic tangent function series. <i>Optik</i> , 2017, 130, 594-600.	1.4	19
41	Discrete-in-time feedback control of near-grazing dynamics in the two-degree-of-freedom vibro-impact system with a clearance. <i>Nonlinear Dynamics</i> , 2017, 87, 1127-1137.	2.7	13
42	Continuum Structural Layout in Consideration of the Balance of the Safety and the Properties of Structures. <i>Latin American Journal of Solids and Structures</i> , 2017, 14, 1143-1169.	0.6	5
43	High strain rate out-of-plane compression properties of aramid fabric reinforced polyamide composite. <i>Polymer Testing</i> , 2016, 53, 314-322.	2.3	24
44	Quasi-static axial crushing experiment study of foam-filled CFRP and aluminum alloy thin-walled structures. <i>Composite Structures</i> , 2016, 157, 303-319.	3.1	59
45	Multi-objective robust optimization of foam-filled bionic thin-walled structures. <i>Thin-Walled Structures</i> , 2016, 109, 332-343.	2.7	40
46	Crashworthiness design of horsetail-bionic thin-walled structures under axial dynamic loading. <i>International Journal of Mechanics and Materials in Design</i> , 2016, 12, 563-576.	1.7	79
47	A simple reliability-based topology optimization approach for continuum structures using a topology description function. <i>Engineering Optimization</i> , 2016, 48, 1182-1201.	1.5	29
48	Design optimization of a MASH TL-3 concrete barrier using RBF-based metamodels and nonlinear finite element simulations. <i>Engineering Structures</i> , 2016, 114, 122-134.	2.6	34
49	An adaptive RBF-based multi-objective optimization method for crashworthiness design of functionally graded multi-cell tube. <i>Structural and Multidisciplinary Optimization</i> , 2016, 53, 129-144.	1.7	28
50	Layout optimization of continuum structures considering the probabilistic and fuzzy directional uncertainty of applied loads based on the cloud model. <i>Structural and Multidisciplinary Optimization</i> , 2016, 53, 81-100.	1.7	49
51	Choosing the optimal addendum modification coefficient of external involute spur gear. <i>Australian Journal of Mechanical Engineering</i> , 2015, 13, 145-153.	1.5	5
52	Optimization Design for Spur Gear with Stress-Relieving Holes. <i>International Journal of Computational Methods</i> , 2015, 12, 1550006.	0.8	3
53	Multiobjective optimization for foam-filled multi-cell thin-walled structures under lateral impact. <i>Thin-Walled Structures</i> , 2015, 94, 1-12.	2.7	96
54	Anti-controlling Hopf bifurcation in a type of centrifugal governor system. <i>Nonlinear Dynamics</i> , 2015, 81, 811-822.	2.7	16

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55	Crushing analysis and multi-objective optimization design for bionic thin-walled structure. <i>Materials and Design</i> , 2015, 87, 825-834.	3.3	95
56	Multi-objective robust optimization of foam-filled tapered multi-cell thin-walled structures. <i>Structural and Multidisciplinary Optimization</i> , 2015, 52, 1051-1067.	1.7	37
57	Alternative Criterion for Investigation of Pitchfork Bifurcations of Limit Cycle in Relay Feedback Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2014, 9, .	0.7	3
58	Multiobjective crashworthiness optimization design of functionally graded foam-filled tapered tube based on dynamic ensemble metamodel. <i>Materials & Design</i> , 2014, 55, 747-757.	5.1	91
59	Crashworthiness optimization design for foam-filled multi-cell thin-walled structures. <i>Thin-Walled Structures</i> , 2014, 75, 8-17.	2.7	160
60	Crashworthiness design of functionally graded foam-filled multi-cell thin-walled structures. <i>Thin-Walled Structures</i> , 2014, 85, 142-155.	2.7	57
61	Optimisation design of reinforced S-shaped frame structure under axial dynamic loading. <i>International Journal of Crashworthiness</i> , 2014, 19, 385-393.	1.1	10
62	Multiobjective crashworthiness optimization of functionally lateral graded foam-filled tubes. <i>Materials & Design</i> , 2013, 44, 414-428.	5.1	96
63	Multi-objective optimisation design of a double-chamber airbag landing system with structure-selection techniques. <i>International Journal of Crashworthiness</i> , 2012, 17, 529-539.	1.1	3
64	Research on the method of simulation of capsule's impact under sea wave. , 2012, , .		0
65	New stability conditions for uncertain T-S fuzzy systems with interval time-varying delay. <i>International Journal of Control, Automation and Systems</i> , 2012, 10, 490-497.	1.6	38
66	Designing Hopf limit circle to dynamical systems via modified projective synchronization. <i>Nonlinear Dynamics</i> , 2011, 63, 387-393.	2.7	14
67	Controlling Hopf interaction bifurcations of two-degree-of-freedom self-excited system with dry friction. <i>Nonlinear Dynamics</i> , 2011, 64, 49-57.	2.7	13
68	Theoretical prediction and numerical simulation of honeycomb structures with various cell specifications under axial loading. <i>International Journal of Mechanics and Materials in Design</i> , 2011, 7, 253-263.	1.7	30
69	Crushing analysis and multiobjective crashworthiness optimization of honeycomb-filled single and bitubular polygonal tubes. <i>Materials & Design</i> , 2011, 32, 4449-4460.	5.1	173
70	CRASHWORTHINESS DESIGN FOR HONEYCOMB STRUCTURES UNDER AXIAL DYNAMIC LOADING. <i>International Journal of Computational Methods</i> , 2011, 08, 863-877.	0.8	24