Guilin Wen

List of Publications by Year
in descending order

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70	2,174	236833	243529
papers	citations	25	44
		h-index	g-index

71	71	71	1317
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crushing analysis and multiobjective crashworthiness optimization of honeycomb-filled single and bitubular polygonal tubes. Materials & Design, 2011, 32, 4449-4460.	5.1	173
2	Crashworthiness optimization design for foam-filled multi-cell thin-walled structures. Thin-Walled Structures, 2014, 75, 8-17.	2.7	160
3	Crushing behavior and optimization of sheet-based 3D periodic cellular structures. Composites Part B: Engineering, 2020, 182, 107565.	5.9	109
4	Multiobjective crashworthiness optimization of functionally lateral graded foam-filled tubes. Materials & Design, 2013, 44, 414-428.	5.1	96
5	Multiobjective optimization for foam-filled multi-cell thin-walled structures under lateral impact. Thin-Walled Structures, 2015, 94, 1-12.	2.7	96
6	Crushing analysis and multi-objective optimization design for bionic thin-walled structure. Materials and Design, 2015, 87, 825-834.	3.3	95
7	Multiobjective crashworthiness optimization design of functionally graded foam-filled tapered tube based on dynamic ensemble metamodel. Materials & Design, 2014, 55, 747-757.	5.1	91
8	Crashworthiness design of horsetail-bionic thin-walled structures under axial dynamic loading. International Journal of Mechanics and Materials in Design, 2016, 12, 563-576.	1.7	79
9	On sound insulation of pyramidal lattice sandwich structure. Composite Structures, 2019, 208, 385-394.	3.1	78
10	Quasi-static axial crushing experiment study of foam-filled CFRP and aluminum alloy thin-walled structures. Composite Structures, 2016, 157, 303-319.	3.1	59
11	Crashworthiness design of functionally graded foam-filled multi-cell thin-walled structures. Thin-Walled Structures, 2014, 85, 142-155.	2.7	57
12	Design optimization of a novel bio-inspired 3D porous structure for crashworthiness. Composite Structures, 2021, 255, 112897.	3.1	56
13	Layout optimization of continuum structures considering the probabilistic and fuzzy directional uncertainty of applied loads based on the cloud model. Structural and Multidisciplinary Optimization, 2016, 53, 81-100.	1.7	49
14	Multi-objective robust optimization of foam-filled bionic thin-walled structures. Thin-Walled Structures, 2016, 109, 332-343.	2.7	40
15	Fabrication, dynamic properties and multi-objective optimization of a metal origami tube with Miura sheets. Thin-Walled Structures, 2019, 144, 106352.	2.7	39
16	New stability conditions for uncertain T-S fuzzy systems with interval time-varying delay. International Journal of Control, Automation and Systems, 2012, 10, 490-497.	1.6	38
17	Multi-objective robust optimization of foam-filled tapered multi-cell thin-walled structures. Structural and Multidisciplinary Optimization, 2015, 52, 1051-1067.	1.7	37
18	Extending SORA method for reliability-based design optimization using probability and convex set mixed models. Structural and Multidisciplinary Optimization, 2019, 59, 1163-1179.	1.7	35

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19	Design optimization of a MASH TL-3 concrete barrier using RBF-based metamodels and nonlinear finite element simulations. Engineering Structures, 2016, 114, 122-134.	2.6	34
20	Continuum topology optimization considering uncertainties in load locations based on the cloud model. Engineering Optimization, 2018, 50, 1041-1060.	1.5	31
21	The robust fail-safe topological designs based on the von Mises stress. Finite Elements in Analysis and Design, 2020, 171, 103376.	1.7	31
22	Theoretical prediction and numerical simulation of honeycomb structures with various cell specifications under axial loading. International Journal of Mechanics and Materials in Design, 2011, 7, 253-263.	1.7	30
23	A simple reliability-based topology optimization approach for continuum structures using a topology description function. Engineering Optimization, 2016, 48, 1182-1201.	1.5	29
24	An adaptive RBF-based multi-objective optimization method for crashworthiness design of functionally graded multi-cell tube. Structural and Multidisciplinary Optimization, 2016, 53, 129-144.	1.7	28
25	Design optimization of a new W-beam guardrail for enhanced highway safety performance. Advances in Engineering Software, 2017, 112, 154-164.	1.8	27
26	Design, analysis and semi-active control of a quasi-zero stiffness vibration isolation system with six oblique springs. Nonlinear Dynamics, 2021, 106, 309-321.	2.7	27
27	On the ensemble of metamodels with multiple regional optimized weight factors. Structural and Multidisciplinary Optimization, 2018, 58, 245-263.	1.7	26
28	Theoretical prediction and crashworthiness optimization of multi-cell polygonal tubes. Journal of Sandwich Structures and Materials, 2020, 22, 190-219.	2.0	25
29	CRASHWORTHINESS DESIGN FOR HONEYCOMB STRUCTURES UNDER AXIAL DYNAMIC LOADING. International Journal of Computational Methods, 2011, 08, 863-877.	0.8	24
30	High strain rate out-of-plane compression properties of aramid fabric reinforced polyamide composite. Polymer Testing, 2016, 53, 314-322.	2.3	24
31	Analytical determination for degenerate grazing bifurcation points in the single-degree-of-freedom impact oscillator. Nonlinear Dynamics, 2017, 90, 443-456.	2.7	24
32	Complex near-grazing dynamics in impact oscillators. International Journal of Mechanical Sciences, 2019, 156, 106-122.	3.6	24
33	Novel two-parameter dynamics of impact oscillators near degenerate grazing points. International Journal of Non-Linear Mechanics, 2020, 120, 103403.	1.4	24
34	A time-variant reliability analysis method for non-linear limit-state functions with the mixture of random and interval variables. Engineering Structures, 2020, 213, 110588.	2.6	23
35	Efficient, high-resolution topology optimization method based on convolutional neural networks. Frontiers of Mechanical Engineering, 2021, 16, 80-96.	2.5	23
36	An Efficient Method for Topology Optimization of Continuum Structures in the Presence of Uncertainty in Loading Direction. International Journal of Computational Methods, 2017, 14, 1750054.	0.8	19

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37	Generation of grid multi-scroll chaotic attractors via hyperbolic tangent function series. Optik, 2017, 130, 594-600.	1.4	19
38	Robust topology optimization for continuum structures with random loads. Engineering Computations, 2018, 35, 710-732.	0.7	17
39	Degenerate grazing bifurcations in a three-degree-of-freedom impact oscillator. Nonlinear Dynamics, 2019, 97, 525-539.	2.7	17
40	Anti-controlling Hopf bifurcation in a type of centrifugal governor system. Nonlinear Dynamics, 2015, 81, 811-822.	2.7	16
41	Topological Design of a Lightweight Sandwich Aircraft Spoiler. Materials, 2019, 12, 3225.	1.3	16
42	Designing Hopf limit circle to dynamical systems via modified projective synchronization. Nonlinear Dynamics, 2011, 63, 387-393.	2.7	14
43	A Novel Design Framework for Structures/Materials with Enhanced Mechanical Performance. Materials, 2018, 11, 576.	1.3	14
44	Crushing analysis and optimization for bio-inspired hierarchical 3D cellular structure. Composite Structures, 2022, 286, 115333.	3.1	14
45	Controlling Hopfâ€“Hopf interaction bifurcations ofÂaÂtwo-degree-of-freedom self-excited system withÂdryÂfriction. Nonlinear Dynamics, 2011, 64, 49-57.	2.7	13
46	Discrete-in-time feedback control of near-grazing dynamics in the two-degree-of-freedom vibro-impact system with a clearance. Nonlinear Dynamics, 2017, 87, 1127-1137.	2.7	13
47	Optimisation for bending crashworthiness of functionally graded foam-filled cellular structure. International Journal of Crashworthiness, 2018, 23, 446-460.	1.1	13
48	Multi-Objective Optimization Design of Functionally Graded Foam-Filled Graded-Thickness Tube Under Lateral Impact. International Journal of Computational Methods, 2019, 16, 1850088.	0.8	13
49	An efficient evolutionary structural optimization method for multi-resolution designs. Structural and Multidisciplinary Optimization, 2020, 62, 787-803.	1.7	13
50	Suppression of grazing-induced instability in single degree-of-freedom impact oscillators. Applied Mathematics and Mechanics (English Edition), 2019, 40, 97-110.	1.9	12
51	An adaptive meshâ€adjustment strategy for continuum topology optimization to achieve manufacturable structural layout. International Journal for Numerical Methods in Engineering, 2019, 117, 1304-1322.	1.5	11
52	Optimisation design of reinforced S-shaped frame structure under axial dynamic loading. International Journal of Crashworthiness, 2014, 19, 385-393.	1.1	10
53	A new MÃ—N-grid double-scroll chaotic attractors from Rucklidge chaotic system. Optik, 2017, 136, 27-35.	1.4	10
54	Multi-resolution nonlinear topology optimization with enhanced computational efficiency and convergence. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	1.5	10

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55	Ultra-wide band gap in a two-dimensional phononic crystal with hexagonal lattices. Materials Today Communications, 2020, 24, 100977.	0.9	9
56	Crashworthiness analysis and optimization design of TPMS-filled structure. International Journal of Crashworthiness, 2022, 27, 1481-1498.	1.1	9
57	To avoid unpractical optimal design without support. Structural and Multidisciplinary Optimization, 2017, 56, 1589-1595.	1.7	7
58	Neimark-Sacker Bifurcations Near Degenerate Grazing Point in a Two Degree-of-Freedom Impact Oscillator. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	0.7	6
59	Eigenvectors-guided topology optimization to control the mode shape and suppress the vibration of the multi-material plate. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114560.	3.4	6
60	Choosing the optimal addendum modification coefficient of external involute spur gear. Australian Journal of Mechanical Engineering, 2015, 13, 145-153.	1.5	5
61	Continuum Structural Layout in Consideration of the Balance of the Safety and the Properties of Structures. Latin American Journal of Solids and Structures, 2017, 14, 1143-1169.	0.6	5
62	An efficient evolutionary structural optimization method with smooth edges based on the game of building blocks. Engineering Optimization, 2019, 51, 2089-2108.	1.5	5
63	Multi-objective optimisation design of a double-chamber airbag landing system with structure-selection techniques. International Journal of Crashworthiness, 2012, 17, 529-539.	1.1	3
64	Alternative Criterion for Investigation of Pitchfork Bifurcations of Limit Cycle in Relay Feedback Systems. Journal of Computational and Nonlinear Dynamics, 2014, 9, .	0.7	3
65	Optimization Design for Spur Gear with Stress-Relieving Holes. International Journal of Computational Methods, 2015, 12, 1550006.	0.8	3
66	An Efficient Topology Description Function Method Based on Modified Sigmoid Function. Mathematical Problems in Engineering, 2018, 2018, 1-12.	0.6	2
67	An efficient multi-resolution topology optimization scheme for stiffness maximization and stress minimization. Engineering Optimization, 2020, , 1-21.	1.5	1
68	Research on the method of simulation of capsule's impact under sea wave. , 2012, , .		0
69	Hybrid Structural Reliability Analysis under Multisource Uncertainties Based on Universal Grey Numbers. Shock and Vibration, 2018, 2018, 1-7.	0.3	0
70	Coupled CFD/MBD Method for a Tilt Tri-rotor UAV in Conversion of Flight Modes. International Journal of Computational Fluid Dynamics, 2020, 34, 363-379.	0.5	0