

Guangyong Sun

List of Publications by Year in descending order

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216
papers

14,092
citations

9775

73
h-index

28275

105
g-index

217
all docs

217
docs citations

217
times ranked

4840
citing authors

#	ARTICLE	IF	CITATIONS
1	On quasi-static large deflection of single lap joints under transverse loading. <i>Thin-Walled Structures</i> , 2022, 170, 108572.	2.7	12
2	On characterization of cohesive zone model (CZM) based upon digital image correlation (DIC) method. <i>International Journal of Mechanical Sciences</i> , 2022, 215, 106921.	3.6	18
3	Design optimization of bioinspired helicoidal CFRPP/GFRPP hybrid composites for multiple low-velocity impact loads. <i>International Journal of Mechanical Sciences</i> , 2022, 219, 107064.	3.6	41
4	Lightweight hybrid materials and structures for energy absorption: A state-of-the-art review and outlook. <i>Thin-Walled Structures</i> , 2022, 172, 108760.	2.7	130
5	High-impact resistant hybrid sandwich panel filled with shear thickening fluid. <i>Composite Structures</i> , 2022, 284, 115208.	3.1	22
6	Mechanical characterization and numerical modeling on the yield and fracture behaviors of polymethacrylimide (PMI) foam materials. <i>International Journal of Mechanical Sciences</i> , 2022, 218, 107033.	3.6	22
7	Comparison of impact resistance of carbon fibre composites with multiple ultra-thin CNT, aramid pulp, PBO and graphene interlayers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 155, 106815.	3.8	29
8	A bio-inspired foam-filled multi-cell structural configuration for energy absorption. <i>Composites Part B: Engineering</i> , 2022, 238, 109801.	5.9	56
9	Correlation between kinematics and biomechanics of helmeted head under different impact conditions. <i>Composite Structures</i> , 2022, 291, 115514.	3.1	3
10	Fatigue behavior of CFRP/Al adhesive joints – Failure mechanisms study using digital image correlation (DIC) technique. <i>Thin-Walled Structures</i> , 2022, 174, 109075.	2.7	29
11	Vibration-based damage identification in composite plates using 3D-DIC and wavelet analysis. <i>Mechanical Systems and Signal Processing</i> , 2022, 173, 108890.	4.4	28
12	Additively manufactured fiber-reinforced composites: A review of mechanical behavior and opportunities. <i>Journal of Materials Science and Technology</i> , 2022, 119, 219-244.	5.6	33
13	Investigation into multiaxial mechanical behaviors of Kelvin and Octet-B polymeric closed-cell foams. <i>Thin-Walled Structures</i> , 2022, 177, 109405.	2.7	10
14	High-temperature and dynamic mechanical characterization of closed-cell aluminum foams. <i>International Journal of Mechanical Sciences</i> , 2022, 230, 107548.	3.6	7
15	Digital image correlation (DIC) based damage detection for CFRP laminates by using machine learning based image semantic segmentation. <i>International Journal of Mechanical Sciences</i> , 2022, 230, 107529.	3.6	35
16	On strain rate and temperature dependent mechanical properties and constitutive models for additively manufactured polylactic acid (PLA) materials. <i>Thin-Walled Structures</i> , 2022, 179, 109624.	2.7	19
17	On failure mechanisms in CFRP/Al adhesive joints after hygrothermal aging degradation following by mechanical tests. <i>Thin-Walled Structures</i> , 2021, 158, 107184.	2.7	41
18	Fatigue behavior of carbon fibre reinforced plastic and aluminum single-lap adhesive joints after the transverse pre-impact. <i>International Journal of Fatigue</i> , 2021, 144, 105973.	2.8	28

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19	On multiaxial failure behavior of closed-cell aluminum foams under medium strain rates. <i>Thin-Walled Structures</i> , 2021, 160, 107278.	2.7	24
20	A time-dependent mechanobiology-based topology optimization to enhance bone growth in tissue scaffolds. <i>Journal of Biomechanics</i> , 2021, 117, 110233.	0.9	23
21	On lower confidence bound improvement matrix-based approaches for multiobjective Bayesian optimization and its applications to thin-walled structures. <i>Thin-Walled Structures</i> , 2021, 161, 107248.	2.7	12
22	On design of carbon fiber reinforced plastic (CFRP) laminated structure with different failure criteria. <i>International Journal of Mechanical Sciences</i> , 2021, 196, 106251.	3.6	20
23	Optimization for formability of plain woven carbon fiber fabrics. <i>International Journal of Mechanical Sciences</i> , 2021, 197, 106318.	3.6	27
24	Experimental investigation into stamping of woven CF/PP laminates: Influences of molding temperature on thermal, mesoscopic and macroscopic properties. <i>Composite Structures</i> , 2021, 263, 113507.	3.1	14
25	Modal identification of vibrating structures using singular value decomposition and nonlinear iteration based on high-speed digital image correlation. <i>Thin-Walled Structures</i> , 2021, 163, 107377.	2.7	18
26	On fatigue failure prediction of prosthetic devices through XFEM analysis. <i>International Journal of Fatigue</i> , 2021, 147, 106160.	2.8	8
27	A path-dependent level set topology optimization with fracture criterion. <i>Computers and Structures</i> , 2021, 249, 106515.	2.4	12
28	On quasi-static behaviors of different joint methods for connecting carbon fiber reinforced plastic (CFRP) laminate and aluminum alloy. <i>Thin-Walled Structures</i> , 2021, 164, 107657.	2.7	24
29	On the structural parameters of honeycomb-core sandwich panels against low-velocity impact. <i>Composites Part B: Engineering</i> , 2021, 216, 108881.	5.9	97
30	On the effects of temperature on tensile behavior of carbon fiber reinforced epoxy laminates. <i>Thin-Walled Structures</i> , 2021, 164, 107769.	2.7	26
31	Machine learning based topology optimization of fiber orientation for variable stiffness composite structures. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 6736-6755.	1.5	14
32	Nondeterministic multi-objective and multi-case discrete optimization of functionally-graded front-bumper structures for pedestrian protection. <i>Thin-Walled Structures</i> , 2021, 167, 106921.	2.7	11
33	Injury biomechanics-based nondeterministic optimization of front-end structures for safety in pedestrian-vehicle impact. <i>Thin-Walled Structures</i> , 2021, 167, 108087.	2.7	7
34	Parallelized optimization design of bumper systems under multiple low-speed impact loads. <i>Thin-Walled Structures</i> , 2021, 167, 108197.	2.7	21
35	On impact behavior of fiber metal laminate (FML) structures: A state-of-the-art review. <i>Thin-Walled Structures</i> , 2021, 167, 108026.	2.7	78
36	Measurement of fracture parameters based upon digital image correlation and virtual crack closure techniques. <i>Composites Part B: Engineering</i> , 2021, 224, 109157.	5.9	20

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37	Experimental study on the dynamic responses of foam sandwich panels with different facesheets and core gradients subjected to blast impulse. <i>International Journal of Impact Engineering</i> , 2020, 135, 103327.	2.4	100
38	On lateral compression of circular aluminum, CFRP and GFRP tubes. <i>Composite Structures</i> , 2020, 232, 111534.	3.1	78
39	Fracture modeling of brittle biomaterials by the phase-field method. <i>Engineering Fracture Mechanics</i> , 2020, 224, 106752.	2.0	18
40	Effect of different implant configurations on biomechanical behavior of full-arch implant-supported mandibular monolithic zirconia fixed prostheses. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 102, 103490.	1.5	10
41	A novel specimen design to establish the forming limit diagram (FLD) for GFRP through stamping test. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 130, 105737.	3.8	18
42	Quasi-static bending and transverse crushing behaviors for hat-shaped composite tubes made of CFRP, GFRP and their hybrid structures. <i>Composite Structures</i> , 2020, 239, 111842.	3.1	62
43	Parallelized multiobjective efficient global optimization algorithm and its applications. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 763-786.	1.7	28
44	Computational analysis and optimization of sandwich panels with homogeneous and graded foam cores for blast resistance. <i>Thin-Walled Structures</i> , 2020, 147, 106494.	2.7	84
45	On crashworthiness design of hybrid metal-composite structures. <i>International Journal of Mechanical Sciences</i> , 2020, 171, 105380.	3.6	117
46	3D printing of chiral carbon fiber reinforced polylactic acid composites with negative Poisson's ratios. <i>Composites Part B: Engineering</i> , 2020, 201, 108400.	5.9	65
47	A novel failure criterion based upon forming limit curve for thermoplastic composites. <i>Composites Part B: Engineering</i> , 2020, 202, 108320.	5.9	30
48	Characterization of initial and subsequent yield behaviors of closed-cell aluminum foams under multiaxial loadings. <i>Composites Part B: Engineering</i> , 2020, 202, 108247.	5.9	40
49	Phase field fracture in elasto-plastic solids: a length-scale insensitive model for quasi-brittle materials. <i>Computational Mechanics</i> , 2020, 66, 931-961.	2.2	34
50	Comparative study on aluminum/GFRP/CFRP tubes for oblique lateral crushing. <i>Thin-Walled Structures</i> , 2020, 152, 106420.	2.7	54
51	Multiobjective discrete optimization using the TOPSIS and entropy method for protection of pedestrian lower extremity. <i>Thin-Walled Structures</i> , 2020, 152, 106349.	2.7	19
52	Crushing analysis and design optimization for foam-filled aluminum/CFRP hybrid tube against transverse impact. <i>Composites Part B: Engineering</i> , 2020, 196, 108029.	5.9	85
53	Level-set topology optimization for maximizing fracture resistance of brittle materials using phase-field fracture model. <i>International Journal of Numerical Methods in Engineering</i> , 2020, 121, 2929-2945.	1.5	28
54	On low-velocity impact response of foam-core sandwich panels. <i>International Journal of Mechanical Sciences</i> , 2020, 181, 105681.	3.6	105

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55	Tensile performance of basalt fiber composites with open circular holes and straight notches. International Journal of Mechanical Sciences, 2020, 176, 105517.	3.6	29
56	Inverse identification of cell-wall material properties of closed-cell aluminum foams based upon Vickers nano-indentation tests. International Journal of Mechanical Sciences, 2020, 176, 105524.	3.6	30
57	Comparative study on metal/CFRP hybrid structures under static and dynamic loading. International Journal of Impact Engineering, 2020, 141, 103509.	2.4	112
58	On lateral crashworthiness of aluminum/composite hybrid structures. Composite Structures, 2020, 245, 112334.	3.1	40
59	Structural Design for Pedestrian Lower Leg Protection Using Successive Taguchi Method. , 2020, , .		0
60	Nondestructive characterization of bone tissue scaffolds for clinical scenarios. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 89, 150-161.	1.5	27
61	Investigation on impact behavior of FMLs under multiple impacts with the same total energy: Experimental characterization and numerical simulation. Composite Structures, 2019, 226, 111218.	3.1	65
62	Residual flexural properties of CFRP sandwich structures with aluminum honeycomb cores after low-velocity impact. International Journal of Mechanical Sciences, 2019, 161-162, 105026.	3.6	51
63	Low velocity impact behavior of interlayer hybrid composite laminates with carbon/glass/basalt fibres. Composites Part B: Engineering, 2019, 176, 107191.	5.9	137
64	Flexural performance and cost efficiency of carbon/basalt/glass hybrid FRP composite laminates. Thin-Walled Structures, 2019, 142, 516-531.	2.7	97
65	Dynamic response of sandwich panel with hierarchical honeycomb cores subject to blast loading. Thin-Walled Structures, 2019, 142, 499-515.	2.7	96
66	Effect of structural parameters on low-velocity impact behavior of aluminum honeycomb sandwich structures with CFRP face sheets. Thin-Walled Structures, 2019, 137, 411-432.	2.7	121
67	Energy absorption mechanism of axially-varying thickness (AVT) multicell thin-walled structures under out-of-plane loading. Engineering Structures, 2019, 196, 109130.	2.6	79
68	Failure mechanisms in carbon fiber reinforced plastics (CFRP) / aluminum (Al) adhesive bonds subjected to low-velocity transverse pre-impact following by axial post-tension. Composites Part B: Engineering, 2019, 172, 339-351.	5.9	37
69	Phase field fracture in elasto-plastic solids: Abaqus implementation and case studies. Theoretical and Applied Fracture Mechanics, 2019, 103, 102252.	2.1	76
70	Experimental study on residual properties of carbon fibre reinforced plastic (CFRP) and aluminum single-lap adhesive joints at different strain rates after transverse pre-impact. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105372.	3.8	35
71	Phase field fracture in elasto-plastic solids: Variational formulation for multi-surface plasticity and effects of plastic yield surfaces and hardening. International Journal of Mechanical Sciences, 2019, 156, 382-396.	3.6	62
72	Experimental study on low-velocity impact responses and residual properties of composite sandwiches with metallic foam core. Composite Structures, 2019, 223, 110835.	3.1	79

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73	Topographical design of stiffener layout for plates against blast loading using a modified ant colony optimization algorithm. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 335-350.	1.7	25
74	Experimental and numerical investigation into the crashworthiness of metal-foam-composite hybrid structures. <i>Composite Structures</i> , 2019, 209, 535-547.	3.1	129
75	Energy absorption mechanics and design optimization of CFRP/aluminium hybrid structures for transverse loading. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 767-783.	3.6	116
76	Design for cost performance of crashworthy structures made of high strength steel. <i>Thin-Walled Structures</i> , 2019, 138, 458-472.	2.7	60
77	Global and Local Surrogate-Assisted Differential Evolution for Expensive Constrained Optimization Problems With Inequality Constraints. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1642-1656.	6.2	104
78	Experimental investigation of the quasi-static axial crushing behavior of filament-wound CFRP and aluminum/CFRP hybrid tubes. <i>Composite Structures</i> , 2018, 194, 208-225.	3.1	132
79	Sensitivity-Based Parameter Calibration and Model Validation Under Model Error. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2018, 140, .	1.7	9
80	On crashing behaviors of aluminium/CFRP tubes subjected to axial and oblique loading: An experimental study. <i>Composites Part B: Engineering</i> , 2018, 145, 47-56.	5.9	80
81	Research on the whole tool mesh reconstruction in the process of springback compensation for auto-body panels. <i>International Journal of Material Forming</i> , 2018, 11, 77-85.	0.9	1
82	A new multi-objective discrete robust optimization algorithm for engineering design. <i>Applied Mathematical Modelling</i> , 2018, 53, 602-621.	2.2	98
83	On hierarchical honeycombs under out-of-plane crushing. <i>International Journal of Solids and Structures</i> , 2018, 135, 1-13.	1.3	168
84	Experimental and numerical studies on indentation and perforation characteristics of honeycomb sandwich panels. <i>Composite Structures</i> , 2018, 184, 110-124.	3.1	121
85	Modeling for CFRP structures subjected to quasi-static crushing. <i>Composite Structures</i> , 2018, 184, 41-55.	3.1	137
86	Topological design of multi-cell hexagonal tubes under axial and lateral loading cases using a modified particle swarm algorithm. <i>Applied Mathematical Modelling</i> , 2018, 53, 567-583.	2.2	57
87	Topological configuration analysis and design for foam filled multi-cell tubes. <i>Engineering Structures</i> , 2018, 155, 235-250.	2.6	103
88	Configurational optimization of multi-cell topologies for multiple oblique loads. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 469-488.	1.7	67
89	Nondeterministic optimization of tapered sandwich column for crashworthiness. <i>Thin-Walled Structures</i> , 2018, 122, 193-207.	2.7	71
90	Energy absorption of metal, composite and metal/composite hybrid structures under oblique crushing loading. <i>International Journal of Mechanical Sciences</i> , 2018, 135, 458-483.	3.6	187

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91	Low-velocity impact behaviour of sandwich panels with homogeneous and stepwise graded foam cores. <i>Materials and Design</i> , 2018, 160, 1117-1136.	3.3	109
92	Crashworthiness optimization of automotive parts with tailor rolled blank. <i>Engineering Structures</i> , 2018, 169, 201-215.	2.6	58
93	Crashworthiness optimization with uncertainty from surrogate model and numerical error. <i>Thin-Walled Structures</i> , 2018, 129, 457-472.	2.7	32
94	Multi-objective topology optimization of a vehicle door using multiple material tailor-welded blank (TWB) technology. <i>Advances in Engineering Software</i> , 2018, 124, 1-9.	1.8	35
95	Mechanical properties of hybrid composites reinforced by carbon and basalt fibers. <i>International Journal of Mechanical Sciences</i> , 2018, 148, 636-651.	3.6	119
96	Residual crashworthiness of CFRP structures with pre-impact damage – An experimental and numerical study. <i>International Journal of Mechanical Sciences</i> , 2018, 149, 122-135.	3.6	56
97	High-velocity impact behaviour of aluminium honeycomb sandwich panels with different structural configurations. <i>International Journal of Impact Engineering</i> , 2018, 122, 119-136.	2.4	124
98	On fracture characteristics of adhesive joints with dissimilar materials – An experimental study using digital image correlation (DIC) technique. <i>Composite Structures</i> , 2018, 201, 1056-1075.	3.1	84
99	Bending characteristics of top-hat structures through tailor rolled blank (TRB) process. <i>Thin-Walled Structures</i> , 2018, 123, 420-440.	2.7	65
100	Multi-objective Reliability-Based Design Optimization for Energy Absorption Components Considering Manufacturing Effects. , 2018, , 310-319.		0
101	Crashworthiness design of functionally graded structures with variable diameters. <i>International Journal of Crashworthiness</i> , 2017, 22, 148-162.	1.1	17
102	Maximizing spatial decay of evanescent waves in phononic crystals by topology optimization. <i>Computers and Structures</i> , 2017, 182, 430-447.	2.4	50
103	A Two-Phase Differential Evolution for Uniform Designs in Constrained Experimental Domains. <i>IEEE Transactions on Evolutionary Computation</i> , 2017, 21, 665-680.	7.5	53
104	Crashworthiness analysis and optimization of fourier varying section tubes. <i>International Journal of Non-Linear Mechanics</i> , 2017, 92, 41-58.	1.4	76
105	Topology Optimization of Multicell Tubes Under Out-of-Plane Crushing Using a Modified Artificial Bee Colony Algorithm. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2017, 139, .	1.7	34
106	On crushing characteristics of different configurations of metal-composites hybrid tubes. <i>Composite Structures</i> , 2017, 175, 58-69.	3.1	128
107	Energy absorption mechanics for variable thickness thin-walled structures. <i>Thin-Walled Structures</i> , 2017, 118, 214-228.	2.7	123
108	Topological design of structures under dynamic periodic loads. <i>Engineering Structures</i> , 2017, 142, 128-136.	2.6	24

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109	Parameterization of criss-cross configurations for multiobjective crashworthiness optimization. <i>International Journal of Mechanical Sciences</i> , 2017, 124-125, 145-157.	3.6	174
110	An experimental and numerical study on quasi-static and dynamic crashing behaviors for tailor rolled blank (TRB) structures. <i>Materials and Design</i> , 2017, 118, 175-197.	3.3	61
111	Crashworthiness analysis of octagonal multi-cell tube with functionally graded thickness under multiple loading angles. <i>Thin-Walled Structures</i> , 2017, 110, 133-139.	2.7	82
112	Multiobjective reliability-based optimization for crashworthy structures coupled with metal forming process. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 1571-1587.	1.7	45
113	Topological design of phononic crystals for unidirectional acoustic transmission. <i>Journal of Sound and Vibration</i> , 2017, 410, 103-123.	2.1	51
114	Crashworthiness design of a steel-aluminum hybrid rail using multi-response objective-oriented sequential optimization. <i>Advances in Engineering Software</i> , 2017, 112, 192-199.	1.8	25
115	Experimental and numerical study on honeycomb sandwich panels under bending and in-panel compression. <i>Materials and Design</i> , 2017, 133, 154-168.	3.3	193
116	On functionally-graded crashworthy shape of conical structures for multiple load cases. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 2861-2873.	0.7	18
117	Multi-objective and multi-case reliability-based design optimization for tailor rolled blank (TRB) structures. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 1899-1916.	1.7	97
118	Multi-objective system reliability-based optimization method for design of a fully parametric concept car body. <i>Engineering Optimization</i> , 2017, 49, 1247-1263.	1.5	30
119	Experimental study for rubber pad forming process of AZ31 magnesium alloy sheets at warm temperature. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 1079-1087.	1.5	7
120	On design optimization for structural crashworthiness and its state of the art. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 1091-1119.	1.7	312
121	Tensile behavior and microstructural evolution for AZ31 magnesium alloys sheet at high strain rate. <i>International Journal of Materials Research</i> , 2017, 108, 560-570.	0.1	9
122	On energy absorption of functionally graded tubes under transverse loading. <i>International Journal of Mechanical Sciences</i> , 2016, 115-116, 465-480.	3.6	57
123	Crashworthiness analysis and optimization of sinusoidal corrugation tube. <i>Thin-Walled Structures</i> , 2016, 105, 121-134.	2.7	88
124	Crashworthiness design of vehicle structure with tailor rolled blank. <i>Structural and Multidisciplinary Optimization</i> , 2016, 53, 321-338.	1.7	66
125	Sensitivity analysis and reliability based design optimization for high-strength steel tailor welded thin-walled structures under crashworthiness. <i>Thin-Walled Structures</i> , 2016, 109, 132-142.	2.7	72
126	Crashworthiness of vertex based hierarchical honeycombs in out-of-plane impact. <i>Materials and Design</i> , 2016, 110, 705-719.	3.3	176

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127	Experimental study on crashworthiness of empty/aluminum foam/honeycomb-filled CFRP tubes. <i>Composite Structures</i> , 2016, 152, 969-993.	3.1	193
128	Theoretical, numerical, and experimental study on laterally variable thickness (LVT) multi-cell tubes for crashworthiness. <i>International Journal of Mechanical Sciences</i> , 2016, 118, 283-297.	3.6	96
129	On design of graded honeycomb filler and tubal wall thickness for multiple load cases. <i>Thin-Walled Structures</i> , 2016, 109, 377-389.	2.7	81
130	A Modified Approach to Modeling of Diffusive Transformation Kinetics from Nonisothermal Data and Experimental Verification. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 4732-4740.	1.1	10
131	Design of transversely-graded foam and wall thickness structures for crashworthiness criteria. <i>Composites Part B: Engineering</i> , 2016, 92, 338-349.	5.9	89
132	Out-of-plane crashworthiness of bio-inspired self-similar regular hierarchical honeycombs. <i>Composite Structures</i> , 2016, 144, 1-13.	3.1	153
133	Multiobjective sequential optimization for a vehicle door using hybrid materials tailor-welded structure. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 3092-3100.	1.1	25
134	Multiobjective robust optimization of coronary stents. <i>Materials and Design</i> , 2016, 90, 682-692.	3.3	51
135	Theoretical prediction and optimization of multi-cell hexagonal tubes under axial crashing. <i>Thin-Walled Structures</i> , 2016, 102, 111-121.	2.7	125
136	On design of multi-cell thin-wall structures for crashworthiness. <i>International Journal of Impact Engineering</i> , 2016, 88, 102-117.	2.4	180
137	A study on the critical wall thickness of the inner tube for magnetic pulse welding of tubular Al-Fe parts. <i>Journal of Materials Processing Technology</i> , 2016, 227, 138-146.	3.1	32
138	Dynamic crashing behavior of new extrudable multi-cell tubes with a functionally graded thickness. <i>International Journal of Mechanical Sciences</i> , 2015, 103, 63-73.	3.6	186
139	Thermal effects in magnetic pulse forming of magnesium alloy sheet. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 755-770.	1.5	2
140	Optimization of Spot-Welded Joints Combined Artificial Bee Colony Algorithm with Sequential Kriging Optimization. <i>Advances in Mechanical Engineering</i> , 2015, 6, 573694-573694.	0.8	13
141	Comparison of functionally-graded structures under multiple loading angles. <i>Thin-Walled Structures</i> , 2015, 94, 334-347.	2.7	75
142	Topology Optimization of an Automotive Tailor-Welded Blank Door. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015, 137, .	1.7	26
143	Discrete robust optimization algorithm based on Taguchi method for structural crashworthiness design. <i>Expert Systems With Applications</i> , 2015, 42, 4482-4492.	4.4	56
144	Dynamical bending analysis and optimization design for functionally graded thickness (FGT) tube. <i>International Journal of Impact Engineering</i> , 2015, 78, 128-137.	2.4	73

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145	Multiobjective robust optimization for crashworthiness design of foam filled thin-walled structures with random and interval uncertainties. <i>Engineering Structures</i> , 2015, 88, 111-124.	2.6	65
146	Crashworthiness study on functionally graded thin-walled structures. <i>International Journal of Crashworthiness</i> , 2015, 20, 280-300.	1.1	34
147	On functionally graded composite structures for crashworthiness. <i>Composite Structures</i> , 2015, 132, 393-405.	3.1	109
148	On design of multi-cell tubes under axial and oblique impact loads. <i>Thin-Walled Structures</i> , 2015, 95, 115-126.	2.7	221
149	Experimental and numerical research on process formability in magnetic pulse forming of AZ31 magnesium alloy sheets. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 1779-1788.	1.1	0
150	Crashworthiness design for foam-filled thin-walled structures with functionally lateral graded thickness sheets. <i>Thin-Walled Structures</i> , 2015, 91, 63-71.	2.7	102
151	Crashworthiness analysis and design of multi-cell hexagonal columns under multiple loading cases. <i>Finite Elements in Analysis and Design</i> , 2015, 104, 89-101.	1.7	220
152	Crashworthiness design for functionally graded foam-filled bumper beam. <i>Advances in Engineering Software</i> , 2015, 85, 81-95.	1.8	109
153	A method to evaluate the formability of high-strength steel in hot stamping. <i>Materials & Design</i> , 2015, 77, 95-109.	5.1	58
154	An experimental study on fatigue characteristics of CFRP-steel hybrid laminates. <i>Materials and Design</i> , 2015, 88, 643-650.	3.3	50
155	A comparative study on thin-walled structures with functionally graded thickness (FGT) and tapered tubes withstanding oblique impact loading. <i>International Journal of Impact Engineering</i> , 2015, 77, 68-83.	2.4	141
156	Topology optimization for microstructures of viscoelastic composite materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 283, 503-516.	3.4	79
157	Multiobjective robust design optimization of fatigue life for a truck cab. <i>Reliability Engineering and System Safety</i> , 2015, 135, 1-8.	5.1	89
158	Two-scale optimal design of structures with thermal insulation materials. <i>Composite Structures</i> , 2015, 120, 358-365.	3.1	55
159	The finite element analysis of austenite decomposition during continuous cooling in 22MnB5 steel. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014, 22, 065005.	0.8	28
160	Fatigue optimization with combined ensembles of surrogate modeling for a truck cab. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 4641-4649.	0.7	23
161	Specific wave interface and its formation during magnetic pulse welding. <i>Applied Physics Letters</i> , 2014, 105, 221901.	1.5	28
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