Hongshuai Lei

List of Publications by Year in descending order

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172457 214800 2,305 52 29 47 citations h-index g-index papers 52 52 52 1802 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Heteroatomâ€Doped Mesoporous Hollow Carbon Spheres for Fast Sodium Storage with an Ultralong Cycle Life. Advanced Energy Materials, 2019, 9, 1900036.	19.5	212
2	Evaluation of compressive properties of SLM-fabricated multi-layer lattice structures by experimental test and \hat{l} 4-CT-based finite element analysis. Materials and Design, 2019, 169, 107685.	7.0	203
3	Crushing behavior of multi-layer metal lattice panel fabricated by selective laser melting. International Journal of Mechanical Sciences, 2018, 145, 389-399.	6.7	129
4	Mechanical properties and energy absorption capability of AuxHex structure under in-plane compression: Theoretical and experimental studies. International Journal of Mechanical Sciences, 2019, 159, 43-57.	6.7	87
5	Energy absorption and failure pattern of hybrid composite tubes under quasi-static axial compression. Composites Part B: Engineering, 2020, 198, 108217.	12.0	85
6	Study of Size Effect on Microstructure and Mechanical Properties of AlSi10Mg Samples Made by Selective Laser Melting. Materials, 2018, 11, 2463.	2.9	82
7	Radar stealth and mechanical properties of a broadband radar absorbing structure. Composites Part B: Engineering, 2017, 123, 19-27.	12.0	79
8	Macroscopic mechanical response of chiral-type cylindrical metastructures under axial compression loading. Materials and Design, 2018, 158, 198-212.	7.0	79
9	An experimental and numerical investigation of compressive response of designed Schwarz Primitive triply periodic minimal surface with non-uniform shell thickness. Extreme Mechanics Letters, 2020, 37, 100671.	4.1	72
10	Out-of-plane compressive performance and energy absorption of multi-layer graded sinusoidal corrugated sandwich panels. Materials and Design, 2019, 178, 107858.	7.0	70
11	Experimental and simulation investigation of the reversible bi-directional twisting response of tetra-chiral cylindrical shells. Composite Structures, 2018, 203, 142-152.	5.8	69
12	Enhanced out-of-plane compressive strength and energy absorption of 3D printed square and hexagonal honeycombs with variable-thickness cell edges. Extreme Mechanics Letters, 2018, 18, 9-18.	4.1	68
13	Recent progress in the design and fabrication of multifunctional structures based on metamaterials. Current Opinion in Solid State and Materials Science, 2021, 25, 100883.	11.5	65
14	Crashworthiness of circular fiber reinforced plastic tubes filled with composite skeletons/aluminum foam under drop-weight impact loading. Thin-Walled Structures, 2021, 160, 107380.	5.3	60
15	Influence of manufacturing geometric defects on the mechanical properties of AlSi10Mg alloy fabricated by selective laser melting. Journal of Alloys and Compounds, 2019, 789, 852-859.	5.5	56
16	Mechanical properties and internal microdefects evolution of carbon fiber reinforced polymer composites: Cryogenic temperature and thermocycling effects. Composites Science and Technology, 2020, 191, 108083.	7.8	52
17	In-plane compression behavior of hybrid honeycomb metastructures: Theoretical and experimental studies. Aerospace Science and Technology, 2020, 106, 106081.	4.8	51
18	In Plane Mechanical Properties of Tetrachiral and Antitetrachiral Hybrid Metastructures. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	2.2	49

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19	Architecture design of periodic truss-lattice cells for additive manufacturing. Additive Manufacturing, 2020, 34, 101172.	3.0	48
20	Experimental and numerical investigation on the crushing behavior of sandwich composite under edgewise compression loading. Composites Part B: Engineering, 2016, 94, 34-44.	12.0	47
21	Design of self-supporting lattices for additive manufacturing. Journal of the Mechanics and Physics of Solids, 2021, 148, 104298.	4.8	39
22	Effect of Defect on the Compressive Response of Sandwich Structures with Carbon Fiber Pyramidal Truss Cores. International Journal of Applied Mechanics, 2015, 07, 1550004.	2.2	38
23	Multistable Cylindrical Mechanical Metastructures: Theoretical and Experimental Studies. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	2.2	37
24	Frequency-selective-surface based sandwich structure for both effective loadbearing and customizable microwave absorption. Composite Structures, 2020, 235, 111792.	5.8	36
25	Macroscopic response of carbon-fiber pyramidal truss core panel taking account of local defect. Composites Part B: Engineering, 2015, 79, 311-321.	12.0	35
26	Effects of stitch on mechanical and microwave absorption properties of radar absorbing structure. Composite Structures, 2018, 195, 297-307.	5.8	34
27	Effect of manufacturing defect on mechanical performance of plain weave carbon/epoxy composite based on 3D geometrical reconstruction. Composite Structures, 2018, 199, 38-52.	5.8	34
28	Gradient nanocomposite with metastructure design for broadband radar absorption. Composites Part A: Applied Science and Manufacturing, 2020, 129, 105698.	7.6	34
29	Parameters analysis and optimization of a typical multistable mechanical metamaterial. Extreme Mechanics Letters, 2020, 35, 100640.	4.1	34
30	Broadband radar absorbing composites: Spatial scale effect and environmental adaptability. Composites Science and Technology, 2020, 197, 108262.	7.8	30
31	Optimal Design of Broadband Radar Absorbing Sandwich Structure with Circuit Analog Absorber Core. International Journal of Applied Mechanics, 2015, 07, 1550020.	2.2	28
32	Novel multifunctional lattice composite structures with superior load-bearing capacities and radar absorption characteristics. Composites Science and Technology, 2021, 216, 109064.	7.8	27
33	Energy absorption diagram characteristic of metallic self-supporting 3D lattices fabricated by additive manufacturing and design method of energy absorption structure. International Journal of Solids and Structures, 2021, 226-227, 111082.	2.7	23
34	In situ X-ray micro-computed tomography study of the damage evolution of prefabricated through-holes in SLM-Printed AlSi10Mg alloy under tension. Journal of Alloys and Compounds, 2020, 821, 153576.	5.5	21
35	Segmentation of computed tomography images and high-precision reconstruction of rubber composite structure based on deep learning. Composites Science and Technology, 2021, 213, 108875.	7.8	20
36	Experimental and theoretical studies on inter-fiber failure of unidirectional polymer-matrix composites under different strain rates. International Journal of Solids and Structures, 2017, 113-114, 37-46.	2.7	19

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37	Load-bearing capacity and failure mechanism of integrated fluted-core composite sandwich cylinders. Composites Science and Technology, 2022, 221, 109344.	7.8	18
38	Deformation behavior of heterogeneous multi-morphology lattice core hybrid structures. Additive Manufacturing, 2021, 37, 101674.	3.0	17
39	Radar-stealth and load-bearing corrugated sandwich structures with superior environmental adaptability. Composites Science and Technology, 2022, 227, 109594.	7.8	17
40	In-Situ Monitoring of a Filament Wound Pressure Vessel by the MWCNT Sensor under Hydraulic Fatigue Cycling and Pressurization. Sensors, 2019, 19, 1396.	3.8	15
41	Damage Localization in Composite Laminates by Building in PZT Wafer Transducers: A Comparative Study with Surfaceâ€Bonded PZT Strategy. Advanced Engineering Materials, 2019, 21, 1801040.	3.5	14
42	Low-velocity impact performance of composite-aluminum tubes prepared by mesoscopic hybridization. Composite Structures, 2021, 274, 114348.	5.8	13
43	Influence of AlSi10Mg particles microstructure on heat conduction during additive manufacturing. International Journal of Heat and Mass Transfer, 2019, 144, 118632.	4.8	11
44	Mechanical performance of bio-inspired hierarchical honeycomb metamaterials. International Journal of Solids and Structures, 2022, 254-255, 111866.	2.7	9
45	Compressive local buckling of integrated fluted-core sandwich composite panels. Mechanics of Materials, 2021, 160, 103954.	3.2	8
46	Effect of nano-silica modification on the tensile property of SMA/GF/CF/epoxy super hybrid woven fabric composites. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1293-1300.	1.0	7
47	Mechanical behaviors and the equivalent network model of self-similar multinetwork elastomers. International Journal of Solids and Structures, 2021, 229, 111135.	2.7	6
48	Deep learning-based X-ray computed tomography image reconstruction and prediction of compression behavior of 3D printed lattice structures. Additive Manufacturing, 2022, 54, 102774.	3.0	6
49	A novel broadband waterborne acoustic absorber. AIP Advances, 2016, 6, .	1.3	5
50	A novel hybrid design method of lattice structure based on failure mode. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	5.1	4
51	Bio-inspired 3D printing of self-growing multinetwork elastomer composites. Composite Structures, 2022, 279, 114777.	5.8	2
52	Resonance frequency prediction approach of lattice structure fabricated by selective laser melting. Advances in Astronautics Science and Technology, 0, , .	0.8	1