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 | Bio-inspired 3D printing of self-growing multinetwork elastomer composites. Composite Structures, 2022, 279, 114777. | 5.8 | 2 |
| 2 | Load-bearing capacity and failure mechanism of integrated fluted-core composite sandwich cylinders. Composites Science and Technology, 2022, 221, 109344. | 7.8 | 18 |
| 3 | 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 |
| 4 | Radar-stealth and load-bearing corrugated sandwich structures with superior environmental adaptability. Composites Science and Technology, 2022, 227, 109594. | 7.8 | 17 |
| 5 | A novel hybrid design method of lattice structure based on failure mode. Science China: Physics, Mechanics and Astronomy, 2022, 65, . | 5.1 | 4 |
| 6 | Mechanical performance of bio-inspired hierarchical honeycomb metamaterials. International Journal of Solids and Structures, 2022, 254-255, 111866. | 2.7 | 9 |
| 7 | 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 |
| 8 | 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 |
| 9 | Deformation behavior of heterogeneous multi-morphology lattice core hybrid structures. Additive Manufacturing, 2021, 37, 101674. | 3.0 | 17 |
| 10 | Design of self-supporting lattices for additive manufacturing. Journal of the Mechanics and Physics of Solids, 2021, 148, 104298. | 4.8 | 39 |
| 11 | 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 |
| 12 | 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 |
| 13 | Compressive local buckling of integrated fluted-core sandwich composite panels. Mechanics of Materials, 2021, 160, 103954. | 3.2 | 8 |
| 14 | Low-velocity impact performance of composite-aluminum tubes prepared by mesoscopic hybridization. Composite Structures, 2021, 274, 114348. | 5.8 | 13 |
| 15 | Mechanical behaviors and the equivalent network model of self-similar multinetwork elastomers. International Journal of Solids and Structures, 2021, 229, 111135. | 2.7 | 6 |
| 16 | Novel multifunctional lattice composite structures with superior load-bearing capacities and radar absorption characteristics. Composites Science and Technology, 2021, 216, 109064. | 7.8 | 27 |
| 17 | Gradient nanocomposite with metastructure design for broadband radar absorption. Composites Part A: Applied Science and Manufacturing, 2020, 129, 105698. | 7.6 | 34 |
| 18 | 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 |

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|----|--|------|-----------|
| 19 | Frequency-selective-surface based sandwich structure for both effective loadbearing and customizable microwave absorption. Composite Structures, 2020, 235, 111792. | 5.8 | 36 |
| 20 | In-plane compression behavior of hybrid honeycomb metastructures: Theoretical and experimental studies. Aerospace Science and Technology, 2020, 106, 106081. | 4.8 | 51 |
| 21 | Energy absorption and failure pattern of hybrid composite tubes under quasi-static axial compression. Composites Part B: Engineering, 2020, 198, 108217. | 12.0 | 85 |
| 22 | Broadband radar absorbing composites: Spatial scale effect and environmental adaptability. Composites Science and Technology, 2020, 197, 108262. | 7.8 | 30 |
| 23 | 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 |
| 24 | Parameters analysis and optimization of a typical multistable mechanical metamaterial. Extreme Mechanics Letters, 2020, 35, 100640. | 4.1 | 34 |
| 25 | Architecture design of periodic truss-lattice cells for additive manufacturing. Additive Manufacturing, 2020, 34, 101172. | 3.0 | 48 |
| 26 | 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 |
| 27 | Influence of AlSi10Mg particles microstructure on heat conduction during additive manufacturing. International Journal of Heat and Mass Transfer, 2019, 144, 118632. | 4.8 | 11 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Heteroatomâ€Doped Mesoporous Hollow Carbon Spheres for Fast Sodium Storage with an Ultralong Cycle Life. Advanced Energy Materials, 2019, 9, 1900036. | 19.5 | 212 |
| 33 | 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 |
| 34 | Multistable Cylindrical Mechanical Metastructures: Theoretical and Experimental Studies. Journal of Applied Mechanics, Transactions ASME, 2019, 86, . | 2.2 | 37 |
| 35 | 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 |
| 36 | Effects of stitch on mechanical and microwave absorption properties of radar absorbing structure. Composite Structures, 2018, 195, 297-307. | 5.8 | 34 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | Study of Size Effect on Microstructure and Mechanical Properties of AlSi10Mg Samples Made by Selective Laser Melting. Materials, 2018, 11, 2463. | 2.9 | 82 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Macroscopic mechanical response of chiral-type cylindrical metastructures under axial compression loading. Materials and Design, 2018, 158, 198-212. | 7.0 | 79 |
| 43 | Radar stealth and mechanical properties of a broadband radar absorbing structure. Composites Part B: Engineering, 2017, 123, 19-27. | 12.0 | 79 |
| 44 | In Plane Mechanical Properties of Tetrachiral and Antitetrachiral Hybrid Metastructures. Journal of Applied Mechanics, Transactions ASME, 2017, 84, . | 2.2 | 49 |
| 45 | 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 |
| 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 | A novel broadband waterborne acoustic absorber. AIP Advances, 2016, 6, . | 1.3 | 5 |
| 48 | 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 |
| 49 | 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 |
| 50 | Optimal Design of Broadband Radar Absorbing Sandwich Structure with Circuit Analog Absorber Core. International Journal of Applied Mechanics, 2015, 07, 1550020. | 2.2 | 28 |
| 51 | 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 |
| 52 | Resonance frequency prediction approach of lattice structure fabricated by selective laser melting. Advances in Astronautics Science and Technology, 0, , . | 0.8 | 1 |