

Jiayi Liu

List of Publications by Year in descending order

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28
papers

920
citations

471509

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times ranked

444
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on manufacturing and mechanical behavior of all-composite sandwich structure with Y-shaped cores. <i>Composites Science and Technology</i> , 2018, 159, 87-102.	7.8	132
2	The effect of temperature on the bending properties and failure mechanism of composite truss core sandwich structures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 79, 146-154.	7.6	93
3	Mechanical behavior and failure of composite pyramidal truss core sandwich columns. <i>Composites Part B: Engineering</i> , 2011, 42, 938-945.	12.0	87
4	Ballistic impact responses and failure mechanism of composite double-arrow auxetic structure. <i>Thin-Walled Structures</i> , 2022, 174, 109087.	5.3	67
5	A novel fabrication method and mechanical behavior of all-composite tetrahedral truss core sandwich panel. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 102, 28-39.	7.6	64
6	Three-point bending behaviors of the foam-filled CFRP X-core sandwich panel: Experimental investigation and analytical modelling. <i>Composite Structures</i> , 2022, 284, 115206.	5.8	64
7	Impulsive response of composite sandwich structure with tetrahedral truss core. <i>Composites Science and Technology</i> , 2019, 176, 17-28.	7.8	49
8	Temperature effects on the strength and crushing behavior of carbon fiber composite truss sandwich cores. <i>Composites Part B: Engineering</i> , 2011, 42, 1860-1866.	12.0	38
9	Effects of thermal exposure on mechanical behavior of carbon fiber composite pyramidal truss core sandwich panel. <i>Composites Part B: Engineering</i> , 2014, 60, 82-90.	12.0	38
10	Experimental study on the low velocity impact responses of all-composite pyramidal truss core sandwich panel after high temperature exposure. <i>Composite Structures</i> , 2014, 116, 670-681.	5.8	35
11	Dynamic response of circular composite laminates subjected to underwater impulsive loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 63-74.	7.6	24
12	Mechanical response of a novel composite Y-frame core sandwich panel under shear loading. <i>Composite Structures</i> , 2019, 224, 111064.	5.8	24
13	Underwater impulsive resistance of the foam reinforced composite lattice sandwich structure. <i>Thin-Walled Structures</i> , 2021, 166, 108120.	5.3	24
14	Dynamic failure of ceramic particle reinforced foam-filled composite lattice core. <i>Composites Science and Technology</i> , 2020, 193, 108143.	7.8	21
15	The compressive responses of glass fiber composite pyramidal truss cores sandwich panel at different temperatures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 73, 93-100.	7.6	20
16	Temperature effects on the compressive properties and failure mechanisms of composite sandwich panel with Y-shaped cores. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 114, 72-85.	7.6	20
17	Moisture absorption characteristics and mechanical degradation of composite lattice truss core sandwich panel in a hygrothermal environment. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 127, 105647.	7.6	18
18	The impact resistance of composite Y-shaped cores sandwich structure. <i>Thin-Walled Structures</i> , 2021, 169, 108389.	5.3	17

#	ARTICLE	IF	CITATIONS
19	Bending response and failure mechanism of composite sandwich panel with Y-frame core. <i>Thin-Walled Structures</i> , 2019, 145, 106387.	5.3	16
20	The edgewise compressive behavior and failure mechanism of the composite Y-frame core sandwich column. <i>Polymer Testing</i> , 2020, 81, 106188.	4.8	14
21	Investigation on the shear behaviors of carbon fiber composite sandwich panels with the X-core. <i>Marine Structures</i> , 2021, 77, 102897.	3.8	12
22	The three-point bending responses of carbon fiber composite sandwich beams with Y-frame cores at high and low temperatures. <i>Thin-Walled Structures</i> , 2021, 162, 107595.	5.3	11
23	Mechanical Behavior and Failure Mechanisms of Carbon Fiber Composite Pyramidal Core Sandwich Panel after Thermal Exposure. <i>Journal of Materials Science and Technology</i> , 2013, 29, 846-854.	10.7	9
24	Investigation on the dynamic behavior of composite gradient double-arrow auxetic structure under local impact load. <i>Polymer Composites</i> , 2022, 43, 3068-3084.	4.6	8
25	Dynamic responses and failure mechanism of composite double-arrow auxetic structure under impact loading. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 2593-2609.	2.6	7
26	Anomalous dynamic response and failure of sandwich structures subjected to underwater impulsive loads. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 2566-2585.	3.5	4
27	The indentation responses of composite Y-type cores sandwich structure under various temperatures. <i>Polymer Composites</i> , 2022, 43, 533-542.	4.6	3
28	The effects of temperature on compressive responses and failure behaviors of composite Y-frame cores sandwich structure. <i>Polymer Composites</i> , 2021, 42, 6116-6126.	4.6	1