

Tiantian Li

List of Publications by Year in descending order

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16
papers

1,855
citations

623699

14
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940516

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docs citations

16
times ranked

1626
citing authors

#	ARTICLE	IF	CITATIONS
1	Bending behavior of sandwich composite structures with tunable 3D-printed core materials. <i>Composite Structures</i> , 2017, 175, 46-57.	5.8	272
2	Lattice Metamaterials with Mechanically Tunable Poisson's Ratio for Vibration Control. <i>Physical Review Applied</i> , 2017, 7, .	3.8	250
3	Exploiting negative Poisson's ratio to design 3D-printed composites with enhanced mechanical properties. <i>Materials and Design</i> , 2018, 142, 247-258.	7.0	234
4	3D printed hierarchical honeycombs with shape integrity under large compressive deformations. <i>Materials and Design</i> , 2018, 137, 226-234.	7.0	189
5	Topology optimization of multi-material negative Poisson's ratio metamaterials using a reconciled level set method. <i>CAD Computer Aided Design</i> , 2017, 83, 15-32.	2.7	177
6	Mechanical properties of sandwich composites with 3d-printed auxetic and non-auxetic lattice cores under low velocity impact. <i>Materials and Design</i> , 2018, 160, 1305-1321.	7.0	145
7	Enhancing indentation and impact resistance in auxetic composite materials. <i>Composites Part B: Engineering</i> , 2020, 198, 108229.	12.0	135
8	An experimental investigation of the temperature effect on the mechanics of carbon fiber reinforced polymer composites. <i>Composites Science and Technology</i> , 2018, 154, 53-63.	7.8	133
9	Hoberman-sphere-inspired lattice metamaterials with tunable negative thermal expansion. <i>Composite Structures</i> , 2018, 189, 586-597.	5.8	88
10	Enhanced fracture toughness in architected interpenetrating phase composites by 3D printing. <i>Composites Science and Technology</i> , 2018, 167, 251-259.	7.8	67
11	Harnessing out-of-plane deformation to design 3D architected lattice metamaterials with tunable Poisson's ratio. <i>Scientific Reports</i> , 2017, 7, 8949.	3.3	50
12	Combination of stiffness, strength, and toughness in 3D printed interlocking nacre-like composites. <i>Extreme Mechanics Letters</i> , 2020, 35, 100621.	4.1	50
13	Micostructure and Magnetic Properties in Nanostructured Fe and Fe-Based Intermetallics Produced by High-Pressure Torsion. <i>Materials Transactions</i> , 2014, 55, 1286-1291.	1.2	24
14	Additive manufactured semi-plate lattice materials with high stiffness, strength and toughness. <i>International Journal of Solids and Structures</i> , 2021, 230-231, 111153.	2.7	16
15	The effect of material mixing on interfacial stiffness and strength of multi-material additive manufacturing. <i>Additive Manufacturing</i> , 2020, 36, 101502.	3.0	13
16	Harnessing 3D printed residual stress to design heat-shrinkable metamaterials. <i>Results in Physics</i> , 2018, 11, 85-95.	4.1	12