

Todd Letcher

List of Publications by Year in descending order

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29
papers

771
citations

1163117

8
h-index

940533

16
g-index

30
all docs

30
docs citations

30
times ranked

860
citing authors

#	ARTICLE	IF	CITATIONS
1	Failure Analysis and Mechanical Characterization of 3D Printed ABS With Respect to Layer Thickness and Orientation. <i>Journal of Failure Analysis and Prevention</i> , 2016, 16, 467-481.	0.9	291
2	Material Property Testing of 3D-Printed Specimen in PLA on an Entry-Level 3D Printer. , 2014, , .		143
3	Design of ultra-lightweight and high-strength cellular structural composites inspired by biomimetics. <i>Composites Part B: Engineering</i> , 2017, 121, 108-121.	12.0	51
4	Experimental Study of Mechanical Properties of Additively Manufactured ABS Plastic as a Function of Layer Parameters. , 2015, , .		44
5	Effects of Gamma Irradiation Upon the Mechanical and Chemical Properties of 3D-Printed Samples of Polylactic Acid. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019, 141, .	2.2	36
6	An energy-based critical fatigue life prediction method for AL6061-T6. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2012, 35, 861-870.	3.4	33
7	Mechanical Properties of Additively Manufactured PEEK Components Using Fused Filament Fabrication. , 2015, , .		33
8	Experimental Investigation of Mechanical Performance and Printability of Gamma-Irradiated Additively Manufactured ABS. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 3643-3654.	2.5	25
9	In-Plane Stiffness of Additively Manufactured Hierarchical Honeycomb Metamaterials With Defects. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	2.2	20
10	Mechanical Strength of Bamboo Filled PLA Composite Material in Fused Filament Fabrication. <i>Journal of Composites Science</i> , 2020, 4, 159.	3.0	19
11	Thermal Conductivity Testing Apparatus for 3D Printed Materials. , 2017, , .		16
12	Development and Mechanical Properties of Basalt Fiber-Reinforced Acrylonitrile Butadiene Styrene for In-Space Manufacturing Applications. <i>Journal of Composites Science</i> , 2019, 3, 89.	3.0	11
13	An Energy-Based Axial Isothermal-Mechanical Fatigue Lifting Method. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012, 134, .	1.1	8
14	Incorporation of a Probabilistic Monotonic Strain Energy Analysis to a Lifting Method. <i>Journal of Failure Analysis and Prevention</i> , 2012, 12, 109-115.	0.9	6
15	An Experimental Investigation of the Effects of Gamma Radiation on 3D Printed ABS for In-Space Manufacturing Purposes. , 2016, , .		6
16	Peel and cleavage strength tests with adhesive connections in dynamic message signs. <i>International Journal of Adhesion and Adhesives</i> , 2020, 103, 102715.	2.9	6
17	Strain Rate and Loading Waveform Effects on an Energy-Based Fatigue Life Prediction for AL6061-T6. <i>Journal of Engineering for Gas Turbines and Power</i> , 2014, 136, .	1.1	5
18	An Energy Based Critical Fatigue Life Prediction Method. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
19	Damage Parameter Assessment for Energy Based Fatigue Life Prediction Methods. , 2012, , .		3
20	Effects of gamma irradiation on mechanical properties of 3D-printed carbon fiberâ€“reinforced ABS. International Journal of Advanced Manufacturing Technology, 2020, 111, 1917-1927.	3.0	3
21	Tensile- and Shear-Strength Tests with Adhesive Connections in Dynamic Message Signs. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	3
22	Welding versus adhesive bonding strength investigation. Engineering Failure Analysis, 2021, 129, 105664.	4.0	3
23	A Robust Optimization Technique for Calculating Scaling Coefficients in an Energy-Based Fatigue Life Prediction Method. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	1
24	Hysteresis Strain Energy Behavior of Al6061-T6 With Multi-Fatigue Load Levels as Applied to an Energy-Based Fatigue Life Prediction Method. , 2013, , .		1
25	An Energy-Based Axial Isothermal-Mechanical Fatigue Lifting Method. , 2012, , .		1
26	The Effect of Heat Generation on Low Cycle Fatigue Life Prediction. , 2011, , .		0
27	A Bi-Level Multi-Objective Robust Design Optimization Method With Multiple Robustness Index Capabilities. , 2011, , .		0
28	Effects of Defects on the Performance of Hierarchical Honeycomb Metamaterials Realized Through Additive Manufacturing. , 2016, , .		0
29	Peel and Cleavage Strength Characteristics of Adhesive versus Welded Connections. Journal of Materials in Civil Engineering, 2022, 34, .	2.9	0