

# Todd Letcher

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Peel and Cleavage Strength Characteristics of Adhesive versus Welded Connections. Journal of Materials in Civil Engineering, 2022, 34, .	2.9	0
2	Tensile- and Shear-Strength Tests with Adhesive Connections in Dynamic Message Signs. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	3
3	Welding versus adhesive bonding strength investigation. Engineering Failure Analysis, 2021, 129, 105664.	4.0	3
4	Effects of gamma irradiation on mechanical properties of 3D-printed carbon fiber-reinforced ABS. International Journal of Advanced Manufacturing Technology, 2020, 111, 1917-1927.	3.0	3
5	Peel and cleavage strength tests with adhesive connections in dynamic message signs. International Journal of Adhesion and Adhesives, 2020, 103, 102715.	2.9	6
6	Mechanical Strength of Bamboo Filled PLA Composite Material in Fused Filament Fabrication. Journal of Composites Science, 2020, 4, 159.	3.0	19
7	Development and Mechanical Properties of Basalt Fiber-Reinforced Acrylonitrile Butadiene Styrene for In-Space Manufacturing Applications. Journal of Composites Science, 2019, 3, 89.	3.0	11
8	Effects of Gamma Irradiation Upon the Mechanical and Chemical Properties of 3D-Printed Samples of Polylactic Acid. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	36
9	In-Plane Stiffness of Additively Manufactured Hierarchical Honeycomb Metamaterials With Defects. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	20
10	Experimental Investigation of Mechanical Performance and Printability of Gamma-Irradiated Additively Manufactured ABS. Journal of Materials Engineering and Performance, 2018, 27, 3643-3654.	2.5	25
11	Design of ultra-lightweight and high-strength cellular structural composites inspired by biomimetics. Composites Part B: Engineering, 2017, 121, 108-121.	12.0	51
12	Thermal Conductivity Testing Apparatus for 3D Printed Materials. , 2017, , .		16
13	Effects of Defects on the Performance of Hierarchical Honeycomb Metamaterials Realized Through Additive Manufacturing. , 2016, , .		0
14	An Experimental Investigation of the Effects of Gamma Radiation on 3D Printed ABS for In-Space Manufacturing Purposes. , 2016, , .		6
15	Failure Analysis and Mechanical Characterization of 3D Printed ABS With Respect to Layer Thickness and Orientation. Journal of Failure Analysis and Prevention, 2016, 16, 467-481.	0.9	291
16	Experimental Study of Mechanical Properties of Additively Manufactured ABS Plastic as a Function of Layer Parameters. , 2015, , .		44
17	Mechanical Properties of Additively Manufactured PEEK Components Using Fused Filament Fabrication. , 2015, , .		33
18	Strain Rate and Loading Waveform Effects on an Energy-Based Fatigue Life Prediction for AL6061-T6. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	5

#	ARTICLE	IF	CITATIONS
19	Material Property Testing of 3D-Printed Specimen in PLA on an Entry-Level 3D Printer. , 2014, , .		143
20	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
21	Hysteresis Strain Energy Behavior of Al6061-T6 With Multi-Fatigue Load Levels as Applied to an Energy-Based Fatigue Life Prediction Method. , 2013, , .		1
22	An Energy-Based Axial Isothermal-Mechanical Fatigue Lifting Method. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	8
23	Damage Parameter Assessment for Energy Based Fatigue Life Prediction Methods. , 2012, , .		3
24	An energy-based critical fatigue life prediction method for AL6061-T6. Fatigue and Fracture of Engineering Materials and Structures, 2012, 35, 861-870.	3.4	33
25	Incorporation of a Probabilistic Monotonic Strain Energy Analysis to a Lifting Method. Journal of Failure Analysis and Prevention, 2012, 12, 109-115.	0.9	6
26	An Energy-Based Axial Isothermal-Mechanical Fatigue Lifting Method. , 2012, , .		1
27	The Effect of Heat Generation on Low Cycle Fatigue Life Prediction. , 2011, , .		0
28	An Energy Based Critical Fatigue Life Prediction Method. , 2011, , .		3
29	A Bi-Level Multi-Objective Robust Design Optimization Method With Multiple Robustness Index Capabilities. , 2011, , .		0