

Patcharapit Promoppatum

List of Publications by Year
in descending order

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Version: 2024-02-01

21
papers

838
citations

623574

14
h-index

794469

19
g-index

21
all docs

21
docs citations

21
times ranked

760
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification and prediction of lack-of-fusion porosity in the high porosity regime during laser powder bed fusion of Ti-6Al-4V. <i>Journal of Materials Processing Technology</i> , 2022, 300, 117426.	3.1	30
2	Modulating fracture toughness through processing-mediated mesostructure in additively manufactured Al-12Si alloy. <i>Materials and Design</i> , 2022, 215, 110440.	3.3	9
3	Understanding size-dependent thermal, microstructural, mechanical behaviors of additively manufactured Ti-6Al-4V from experiments and thermo-metallurgical simulation. <i>Journal of Manufacturing Processes</i> , 2022, 75, 1162-1174.	2.8	7
4	Dual-laser powder bed fusion additive manufacturing: computational study of the effect of process strategies on thermal and residual stress formations. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 121, 1337-1351.	1.5	6
5	Influence of material constitutive models on thermomechanical behaviors in the laser powder bed fusion of Ti-6Al-4V. <i>Additive Manufacturing</i> , 2021, 37, 101680.	1.7	10
6	Physics-based and phenomenological plasticity models for thermomechanical simulation in laser powder bed fusion additive manufacturing: A comprehensive numerical comparison. <i>Materials and Design</i> , 2021, 204, 109658.	3.3	24
7	Part scale estimation of residual stress development in laser powder bed fusion additive manufacturing of Inconel 718. <i>Finite Elements in Analysis and Design</i> , 2021, 189, 103528.	1.7	33
8	Multiscale investigation of the influence of geometrical imperfections, porosity, and size-dependent features on mechanical behavior of additively manufactured Ti-6Al-4V lattice struts. <i>Materials and Design</i> , 2021, 209, 109985.	3.3	39
9	Design exploration of 3D-printed triply periodic minimal surface scaffolds for bone implants. <i>International Journal of Mechanical Sciences</i> , 2021, 211, 106762.	3.6	66
10	Predicting phase transformation kinetics during metal additive manufacturing using non-isothermal Johnson-Mehl-Avrami models: Application to Inconel 718 and Ti-6Al-4V. <i>Additive Manufacturing</i> , 2021, 49, 102478.	1.7	2
11	Influence of scanning length and energy input on residual stress reduction in metal additive manufacturing: Numerical and experimental studies. <i>Journal of Manufacturing Processes</i> , 2020, 49, 247-259.	2.8	81
12	Analytical evaluation of defect generation for selective laser melting of metals. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 1185-1198.	1.5	34
13	Numerical modeling and experimental validation of thermal history and microstructure for additive manufacturing of an Inconel 718 product. <i>Progress in Additive Manufacturing</i> , 2018, 3, 15-32.	2.5	53
14	Numerical modeling of the thermal behavior and residual stress in the direct metal laser sintering process of titanium alloy products. <i>Additive Manufacturing</i> , 2017, 14, 126-136.	1.7	75
15	Experimental and numerical investigation of the cross-flow PCM heat exchanger for the energy saving of building HVAC. <i>Energy and Buildings</i> , 2017, 138, 468-478.	3.1	51
16	Numerical and experimental investigations of micro and macro characteristics of direct metal laser sintered Ti-6Al-4V products. <i>Journal of Materials Processing Technology</i> , 2017, 240, 262-273.	3.1	75
17	A Comprehensive Comparison of the Analytical and Numerical Prediction of the Thermal History and Solidification Microstructure of Inconel 718 Products Made by Laser Powder-Bed Fusion. <i>Engineering</i> , 2017, 3, 685-694.	3.2	164
18	Identifying Material and Device Targets for a Flare Gas Recovery System Utilizing Electrochemical Conversion of Methane to Methanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1736-1745.	3.2	30

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19	Numerical Modeling of Non-linear Thermal Stress in Direct Metal Laser Sintering Process of Titanium Alloy Products. , 2016, , .		3
20	Effect of fin pitches on the air-side performance of L-footed spiral fin-and-tube heat exchangers. International Journal of Heat and Mass Transfer, 2013, 59, 75-82.	2.5	46
21	Mechanical and Fluid Characteristics of Triply Periodic Minimal Surface Bone Scaffolds under Various Functionally Graded Strategies. Journal of Computational Design and Engineering, 0, , .	1.5	0