

Heng Gu

List of Publications by Year in descending order

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20
papers

533
citations

840776

11
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

452
citing authors

#	ARTICLE	IF	CITATIONS
1	Abnormal interfacial bonding mechanisms of multi-material additive-manufactured tungstenâ€ stainless steel sandwich structure. International Journal of Extreme Manufacturing, 2022, 4, 025002.	12.7	9
2	A review on fast hydrothermal liquefaction of biomass. Fuel, 2022, 327, 125135.	6.4	37
3	Laser powder bed fusion of WC-reinforced Hastelloy-X composite: microstructure and mechanical properties. Journal of Materials Science, 2021, 56, 1768-1782.	3.7	21
4	Understanding of process and material behaviours in additive manufacturing of Invar36/Cu10Sn multiple material components via laser-based powder bed fusion. Additive Manufacturing, 2021, 37, 101683.	3.0	17
5	Light People: Professor Lin Li. Light: Science and Applications, 2021, 10, 147.	16.6	1
6	Biocrude Production from Hydrothermal Liquefaction of Chlorella: Thermodynamic Modelling and Reactor Design. Energies, 2021, 14, 6602.	3.1	4
7	Numerical and experimental study of molten pool behaviour and defect formation in multi-material and functionally graded materials laser powder bed fusion. Advanced Powder Technology, 2021, 32, 4303-4321.	4.1	21
8	The Effect of Heat Treatment of AlSi10Mg on the Energy Absorption Performance of Surface-Based Structures. Smart Innovation, Systems and Technologies, 2021, , 395-402.	0.6	0
9	Microstructure, Mechanical Properties, and Residual Stress Distribution of AISI 316L Stainless Steel Part Fabricated by Laser Metal Deposition. Scanning, 2020, 2020, 1-10.	1.5	1
10	Hybrid ultrasonic and mini-motor vibration-induced irregularly shaped powder delivery for multiple materials additive manufacturing. Additive Manufacturing, 2020, 33, 101138.	3.0	12
11	Multi-physics modelling of molten pool development and track formation in multi-track, multi-layer and multi-material selective laser melting. International Journal of Heat and Mass Transfer, 2020, 151, 119458.	4.8	99
12	Numerical and experimental study on the molten pool dynamics and fusion zone formation in multi-pass narrow gap laser welding. Optics and Laser Technology, 2020, 126, 106081.	4.6	12
13	Microstructure and Wear Behavior of Laser Cladded Ni45 + High-Carbon Ferrochrome Composite Coatings. Materials, 2020, 13, 1611.	2.9	5
14	Rapid growth of large area graphene on glass from olive oil by laser irradiation. Nanotechnology, 2020, 31, 245601.	2.6	8
15	Ultrasonic material dispensing-based selective laser melting for 3D printing of metallic components and the effect of powder compression. Additive Manufacturing, 2019, 29, 100818.	3.0	12
16	Computational fluid dynamic simulation of gravity and pressure effects in laser metal deposition for potential additive manufacturing in space. International Journal of Heat and Mass Transfer, 2019, 140, 51-65.	4.8	51
17	Discrete element simulation of powder layer thickness in laser additive manufacturing. Powder Technology, 2019, 352, 91-102.	4.2	64
18	Manufacturability of AlSi10Mg overhang structures fabricated by laser powder bed fusion. Materials and Design, 2018, 160, 1080-1095.	7.0	114

#	ARTICLE	IF	CITATIONS
19	Energy centric selection of machining conditions for minimum cost. Energy, 2018, 164, 655-663.	8.8	18
20	Improving the integrity of specific cutting energy coefficients for energy demand modelling. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 2109-2117.	2.4	27