

# Heng Gu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7511626/publications.pdf>

Version: 2024-02-01

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	Manufacturability of AlSi10Mg overhang structures fabricated by laser powder bed fusion. <i>Materials and Design</i> , 2018, 160, 1080-1095.	7.0	114
2	Multi-physics modelling of molten pool development and track formation in multi-track, multi-layer and multi-material selective laser melting. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119458.	4.8	99
3	Discrete element simulation of powder layer thickness in laser additive manufacturing. <i>Powder Technology</i> , 2019, 352, 91-102.	4.2	64
4	Computational fluid dynamic simulation of gravity and pressure effects in laser metal deposition for potential additive manufacturing in space. <i>International Journal of Heat and Mass Transfer</i> , 2019, 140, 51-65.	4.8	51
5	A review on fast hydrothermal liquefaction of biomass. <i>Fuel</i> , 2022, 327, 125135.	6.4	37
6	Improving the integrity of specific cutting energy coefficients for energy demand modelling. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015, 229, 2109-2117.	2.4	27
7	Laser powder bed fusion of WC-reinforced Hastelloy-X composite: microstructure and mechanical properties. <i>Journal of Materials Science</i> , 2021, 56, 1768-1782.	3.7	21
8	Numerical and experimental study of molten pool behaviour and defect formation in multi-material and functionally graded materials laser powder bed fusion. <i>Advanced Powder Technology</i> , 2021, 32, 4303-4321.	4.1	21
9	Energy centric selection of machining conditions for minimum cost. <i>Energy</i> , 2018, 164, 655-663.	8.8	18
10	Understanding of process and material behaviours in additive manufacturing of Invar36/Cu10Sn multiple material components via laser-based powder bed fusion. <i>Additive Manufacturing</i> , 2021, 37, 101683.	3.0	17
11	Ultrasonic material dispensing-based selective laser melting for 3D printing of metallic components and the effect of powder compression. <i>Additive Manufacturing</i> , 2019, 29, 100818.	3.0	12
12	Hybrid ultrasonic and mini-motor vibration-induced irregularly shaped powder delivery for multiple materials additive manufacturing. <i>Additive Manufacturing</i> , 2020, 33, 101138.	3.0	12
13	Numerical and experimental study on the molten pool dynamics and fusion zone formation in multi-pass narrow gap laser welding. <i>Optics and Laser Technology</i> , 2020, 126, 106081.	4.6	12
14	Abnormal interfacial bonding mechanisms of multi-material additive-manufactured tungsten-stainless steel sandwich structure. <i>International Journal of Extreme Manufacturing</i> , 2022, 4, 025002.	12.7	9
15	Rapid growth of large area graphene on glass from olive oil by laser irradiation. <i>Nanotechnology</i> , 2020, 31, 245601.	2.6	8
16	Microstructure and Wear Behavior of Laser Cladded Ni45 + High-Carbon Ferrochrome Composite Coatings. <i>Materials</i> , 2020, 13, 1611.	2.9	5
17	Biocrude Production from Hydrothermal Liquefaction of Chlorella: Thermodynamic Modelling and Reactor Design. <i>Energies</i> , 2021, 14, 6602.	3.1	4
18	Microstructure, Mechanical Properties, and Residual Stress Distribution of AISI 316L Stainless Steel Part Fabricated by Laser Metal Deposition. <i>Scanning</i> , 2020, 2020, 1-10.	1.5	1

#	ARTICLE	IF	CITATIONS
19	Light People: Professor Lin Li. Light: Science and Applications, 2021, 10, 147.	16.6	1
20	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