

# Mazyar Ansari

## List of Publications by Year in descending order

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18  
papers

622  
citations

759233

12  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical modeling of multi-track powder-fed laser directed energy deposition: On the relationships among process, deposition dimensions, and solidification microstructure in additively manufactured near- $T_2$ titanium alloy. <i>Journal of Materials Processing Technology</i> , 2022, 306, 117643.	6.3	7
2	Analytical solutions for rapid prediction of transient temperature field in powder-fed laser directed energy deposition based on different heat source models. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	2
3	Opportunities and challenges in additive manufacturing of functionally graded metallic materials via powder-fed laser directed energy deposition: A review. <i>Journal of Materials Processing Technology</i> , 2021, 294, 117117.	6.3	100
4	A mathematical model of laser directed energy deposition for process mapping and geometry prediction of Ti-5553 single-tracks. <i>Materialia</i> , 2020, 12, 100710.	2.7	16
5	Rapid prediction of real-time thermal characteristics, solidification parameters and microstructure in laser directed energy deposition (powder-fed additive manufacturing). <i>Journal of Materials Processing Technology</i> , 2019, 274, 116286.	6.3	64
6	Printability and microstructural evolution of Ti-5553 alloy fabricated by modulated laser powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 4399-4409.	3.0	11
7	Influence of friction stir processing conditions on corrosion behavior of AZ31B magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 605-616.	11.9	62
8	Laser directed energy deposition of water-atomized iron powder: Process optimization and microstructure of single-tracks. <i>Optics and Laser Technology</i> , 2019, 112, 485-493.	4.6	30
9	High-temperature oxidation behavior of laser-aided additively manufactured NiCrAlY coating. <i>Corrosion Science</i> , 2017, 118, 168-177.	6.6	47
10	Effect of APS process parameters on high-temperature wear behavior of nickel-graphite abrasion seal coatings. <i>Surface and Coatings Technology</i> , 2017, 321, 403-408.	4.8	26
11	Evaluation of niobium carbide coatings produced on AISI L2 steel via thermo-reactive diffusion technique. <i>Vacuum</i> , 2017, 146, 44-51.	3.5	24
12	Pulsed Nd:YAG laser surface alloying of AZ31 magnesium with nickel for improved wear and corrosion resistance. <i>Journal of Laser Applications</i> , 2016, 28, 012013.	1.7	7
13	An empirical-statistical model for coaxial laser cladding of NiCrAlY powder on Inconel 738 superalloy. <i>Optics and Laser Technology</i> , 2016, 86, 136-144.	4.6	97
14	Analysis and optimization of air suspension system with independent height and stiffness tuning. <i>International Journal of Automotive Technology</i> , 2016, 17, 807-816.	1.4	45
15	Microstructural and Hardness Study of Pulsed Nd:YAG Laser Surface Alloyed Aluminum with Iron. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 1698-1704.	2.2	9
16	Processing-structure-property correlation in nano-SiC-reinforced friction stir welded aluminum joints. <i>Journal of Manufacturing Processes</i> , 2016, 21, 180-189.	5.9	55
17	Effect of pulsed Nd:YAG laser re-melting on chromium surface alloyed AA6061-T6 aluminum. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 285-291.	3.0	13
18	Liquid phase surface nitriding of aluminium using TiC process. <i>Surface Engineering</i> , 2015, 31, 598-604.	2.2	7