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	Opportunities and challenges in additive manufacturing of functionally graded metallic materials via powder-fed laser directed energy deposition: A review. Journal of Materials Processing Technology, 2021, 294, 117117.	6.3	100
2	An empirical-statistical model for coaxial laser cladding of NiCrAlY powder on Inconel 738 superalloy. Optics and Laser Technology, 2016, 86, 136-144.	4.6	97
3	Rapid prediction of real-time thermal characteristics, solidification parameters and microstructure in laser directed energy deposition (powder-fed additive manufacturing). Journal of Materials Processing Technology, 2019, 274, 116286.	6.3	64
4	Influence of friction stir processing conditions on corrosion behavior of AZ31B magnesium alloy. Journal of Magnesium and Alloys, 2019, 7, 605-616.	11.9	62
5	Processingâ€“structureâ€“property correlation in nano-SiC-reinforced friction stir welded aluminum joints. Journal of Manufacturing Processes, 2016, 21, 180-189.	5.9	55
6	High-temperature oxidation behavior of laser-aided additively manufactured NiCrAlY coating. Corrosion Science, 2017, 118, 168-177.	6.6	47
7	Analysis and optimization of air suspension system with independent height and stiffness tuning. International Journal of Automotive Technology, 2016, 17, 807-816.	1.4	45
8	Laser directed energy deposition of water-atomized iron powder: Process optimization and microstructure of single-tracks. Optics and Laser Technology, 2019, 112, 485-493.	4.6	30
9	Effect of APS process parameters on high-temperature wear behavior of nickelâ€“graphite abradable seal coatings. Surface and Coatings Technology, 2017, 321, 403-408.	4.8	26
10	Evaluation of niobium carbide coatings produced on AISI L2 steel via thermo-reactive diffusion technique. Vacuum, 2017, 146, 44-51.	3.5	24
11	A mathematical model of laser directed energy deposition for process mapping and geometry prediction of Ti-5553 single-tracks. Materialia, 2020, 12, 100710.	2.7	16
12	Effect of pulsed Nd:YAG laser re-melting on chromium surface alloyed AA6061-T6 aluminum. International Journal of Advanced Manufacturing Technology, 2016, 83, 285-291.	3.0	13
13	Printability and microstructural evolution of Ti-5553 alloy fabricated by modulated laser powder bed fusion. International Journal of Advanced Manufacturing Technology, 2019, 103, 4399-4409.	3.0	11
14	Microstructural and Hardness Study of Pulsed Nd:YAG Laser Surface Alloyed Aluminum with Iron. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1698-1704.	2.2	9
15	Liquid phase surface nitriding of aluminium using TIG process. Surface Engineering, 2015, 31, 598-604.	2.2	7
16	Pulsed Nd:YAG laser surface alloying of AZ31 magnesium with nickel for improved wear and corrosion resistance. Journal of Laser Applications, 2016, 28, 012013.	1.7	7
17	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-Î² titanium alloy. Journal of Materials Processing Technology, 2022, 306, 117643.	6.3	7
18	Analytical solutions for rapid prediction of transient temperature field in powder-fed laser directed energy deposition based on different heat source models. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2