

Amin S Azar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5395894/publications.pdf>

Version: 2024-02-01

23
papers

356
citations

1040056

9
h-index

794594

19
g-index

23
all docs

23
docs citations

23
times ranked

384
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of welding heat source parameters from actual bead shape. Computational Materials Science, 2012, 54, 176-182.	3.0	69
2	A heat source model for cold metal transfer (CMT) welding. Journal of Thermal Analysis and Calorimetry, 2015, 122, 741-746.	3.6	44
3	Heat source management in wire-arc additive manufacturing process for Al-Mg and Al-Si alloys. Additive Manufacturing, 2019, 26, 180-192.	3.0	42
4	Effect of crystal orientation and texture on fatigue crack evolution in high strength steel welds. International Journal of Fatigue, 2015, 77, 95-104.	5.7	41
5	Advances in robotics for additive/hybrid manufacturing: robot control, speech interface and path planning. Industrial Robot, 2018, 45, 311-327.	2.1	26
6	Determination of Anisotropic Mechanical Properties for Materials Processed by Laser Powder Bed Fusion. Advances in Materials Science and Engineering, 2018, 2018, 1-20.	1.8	22
7	High cycle fatigue life estimation of materials processed by laser powder bed fusion. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1454-1466.	3.4	19
8	Statistical analysis of the arc behavior in dry hyperbaric GMA welding from 1 to 250bar. Journal of Materials Processing Technology, 2012, 212, 211-219.	6.3	16
9	Effect of sawing induced micro-crack orientations on fracture properties of silicon wafers. Engineering Fracture Mechanics, 2016, 154, 262-271.	4.3	12
10	Analytical Modeling of Weld Bead Shape in Dry Hyperbaric GMAW Using Ar-He Chamber Gas Mixtures. Journal of Materials Engineering and Performance, 2013, 22, 673-680.	2.5	9
11	An investigation of the anisotropic properties of heat-treated maraging steel grade 300 processed by laser powder bed fusion. International Journal of Advanced Manufacturing Technology, 2021, 114, 1359-1372.	3.0	9
12	Kinetic interface condition phase diagram for the rapid solidification of multi-component alloys with an application to additive manufacturing. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2022, 76, 102365.	1.6	8
13	Effect of Hyperbaric Chamber Gas on Transformation Texture of the API-X70 Pipeline Weld Metal. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3162-3178.	2.2	7
14	High cycle fatigue life estimation of AlSi10Mg processed by laser powder bed fusion. MATEC Web of Conferences, 2018, 188, 03015.	0.2	6
15	A novel approach for enhancing the fatigue lifetime of the components processed by additive manufacturing technologies. Rapid Prototyping Journal, 2021, 27, 256-267.	3.2	4
16	Corrosion performance and degradation mechanism of a bi-metallic aluminum structure processed by wire-arc additive manufacturing. Npj Materials Degradation, 2021, 5, .	5.8	4
17	Effect of hyperbaric gas composition on mechanical properties of the weld metal. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 465-472.	5.6	3
18	Aerogel: an alternative weld backing material. International Journal of Advanced Manufacturing Technology, 2015, 81, 585-595.	3.0	3

#	ARTICLE	IF	CITATIONS
19	The role of robotics in additive manufacturing: review of the AM processes and introduction of an intelligent system. <i>Industrial Robot</i> , 2022, 49, 311-331.	2.1	3
20	Fundamental aspects of processing multi-metallic components using additive manufacturing technologies. <i>European Journal of Materials</i> , 2022, 2, 234-364.	2.6	3
21	Orientation Relationships and Texture of the Iron-Nitride Phase Constituents in Pulsed Plasma Nitriding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 4700-4708.	2.2	2
22	(111)Si thin layers detachment by stress-induced spallation. <i>Surface Topography: Metrology and Properties</i> , 2019, 7, 015005.	1.6	2
23	Mechanical Properties of AlSi10Mg Processed by Laser Powder Bed Fusion at Elevated Temperature. <i>Minerals, Metals and Materials Series</i> , 2020, , 395-404.	0.4	2