

Amin S Azar

List of Publications by Year in descending order

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384
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#	ARTICLE	IF	CITATIONS
1	Kinetic interface condition phase diagram for the rapid solidification of multi-component alloys with an application to additive manufacturing. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2022, 76, 102365.	1.6	8
2	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
3	Fundamental aspects of processing multi-metallic components using additive manufacturing technologies. <i>European Journal of Materials</i> , 2022, 2, 234-364.	2.6	3
4	A novel approach for enhancing the fatigue lifetime of the components processed by additive manufacturing technologies. <i>Rapid Prototyping Journal</i> , 2021, 27, 256-267.	3.2	4
5	An investigation of the anisotropic properties of heat-treated maraging steel grade 300 processed by laser powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 1359-1372.	3.0	9
6	Corrosion performance and degradation mechanism of a bi-metallic aluminum structure processed by wire-arc additive manufacturing. <i>Npj Materials Degradation</i> , 2021, 5, .	5.8	4
7	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
8	Heat source management in wire-arc additive manufacturing process for Al-Mg and Al-Si alloys. <i>Additive Manufacturing</i> , 2019, 26, 180-192.	3.0	42
9	High cycle fatigue life estimation of materials processed by laser powder bed fusion. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 1454-1466.	3.4	19
10	(111)Si thin layers detachment by stress-induced spallation. <i>Surface Topography: Metrology and Properties</i> , 2019, 7, 015005.	1.6	2
11	Advances in robotics for additive/hybrid manufacturing: robot control, speech interface and path planning. <i>Industrial Robot</i> , 2018, 45, 311-327.	2.1	26
12	Determination of Anisotropic Mechanical Properties for Materials Processed by Laser Powder Bed Fusion. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-20.	1.8	22
13	High cycle fatigue life estimation of AlSi10Mg processed by laser powder bed fusion. <i>MATEC Web of Conferences</i> , 2018, 188, 03015.	0.2	6
14	Effect of sawing induced micro-crack orientations on fracture properties of silicon wafers. <i>Engineering Fracture Mechanics</i> , 2016, 154, 262-271.	4.3	12
15	A heat source model for cold metal transfer (CMT) welding. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 741-746.	3.6	44
16	Aerogel: an alternative weld backing material. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 585-595.	3.0	3
17	Effect of crystal orientation and texture on fatigue crack evolution in high strength steel welds. <i>International Journal of Fatigue</i> , 2015, 77, 95-104.	5.7	41
18	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

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19	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
20	Determination of welding heat source parameters from actual bead shape. Computational Materials Science, 2012, 54, 176-182.	3.0	69
21	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
22	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
23	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