

Revisiting fundamental welding concepts to improve academic research
to practice

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Analysis of Ductile Fracture Obtained by Charpy Impact Test of a Steel Structure Created by Robot-Assisted GMAW-Based Additive Manufacturing. <i>Metals</i> , 2019, 9, 1208.	1.0	15
2	Review: The Impact of Metal Additive Manufacturing on the Aerospace Industry. <i>Metals</i> , 2019, 9, 1286.	1.0	162
3	The dynamic arch bending mechanism of flat bridge structure of AlSi10Mg during SLM process. <i>Materials and Design</i> , 2020, 188, 108469.	3.3	12
4	Effect of scanning speed on the microstructure and mechanical behavior of 316L stainless steel fabricated by selective laser melting. <i>Materials and Design</i> , 2020, 186, 108355.	3.3	99
5	Plastic deformation behavior and dynamic recrystallization of Inconel 625 superalloy fabricated by directed energy deposition. <i>Materials and Design</i> , 2020, 186, 108359.	3.3	58
6	High-throughput synthesis of Mo-Nb-Ta-W high-entropy alloys via additive manufacturing. <i>Materials and Design</i> , 2020, 187, 108358.	3.3	143
7	Two pass laser welding of TC4 Titanium alloy to 301L stainless steel via pure V interlayer. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1400-1404.	2.6	20
8	Butt laser welding of TC4 Titanium alloy and 304 stainless steel with Ag-base filler metal based on a hybrid connection mechanism. <i>Optics and Laser Technology</i> , 2020, 124, 105957.	2.2	19
9	Effects of Y content on laser melting-deposited 24CrNiMo steel: Formability, microstructural evolution, and mechanical properties. <i>Materials and Design</i> , 2020, 188, 108434.	3.3	19
10	Evaluation of Bead Geometry for Aluminum Parts Fabricated Using Additive Manufacturing-Based Wire-Arc Welding. <i>Processes</i> , 2020, 8, 1211.	1.3	6
11	“Unit cell” type scan strategies for powder bed fusion: The Hilbert fractal. <i>Additive Manufacturing</i> , 2020, 36, 101588.	1.7	4
12	High deposition wire arc additive manufacturing of mild steel: Strategies and heat input effect on microstructure and mechanical properties. <i>Journal of Manufacturing Processes</i> , 2020, 58, 615-626.	2.8	91
13	Fabrication of porous pure titanium via selective laser melting under low-energy-density process conditions. <i>Materials and Design</i> , 2020, 195, 109035.	3.3	13
14	Effect of milling parameters on HSLA steel parts produced by Wire and Arc Additive Manufacturing (WAAM). <i>Journal of Manufacturing Processes</i> , 2020, 59, 739-749.	2.8	94
15	Effect of crack-like defects on the fracture behaviour of Wire + Arc Additively Manufactured nickel-base Alloy 718. <i>Additive Manufacturing</i> , 2020, 36, 101578.	1.7	27
16	Phase transformation - induced strengthening of an additively manufactured multi- principal element CrMnFeCoNi alloy. <i>Materials and Design</i> , 2020, 195, 108999.	3.3	13
17	Microstructure evolution and mechanical properties of wire-feed electron beam additive manufactured Ti-5Al-2Sn-2Zr-4Mo-4Cr alloy with different subtransus heat treatments. <i>Materials and Design</i> , 2020, 195, 109063.	3.3	37
18	Dimensionless process development for lattice structure design in laser powder bed fusion. <i>Materials and Design</i> , 2020, 194, 108952.	3.3	11

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19	Influence of substrate temperature on microstructural and mechanical properties of 316L stainless steel consolidated by laser powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 3489-3503.	1.5	13
20	Transient nucleation in selective laser melting of Zr-based bulk metallic glass. <i>Materials and Design</i> , 2020, 195, 108958.	3.3	24
21	In situ strengthening of CrMnFeCoNi high-entropy alloy with Al realized by laser additive manufacturing. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156563.	2.8	26
22	Neutron dark-field imaging applied to porosity and deformation-induced phase transitions in additively manufactured steels. <i>Materials and Design</i> , 2020, 195, 109009.	3.3	8
23	Mechanical properties and microstructure evolution of selective laser melting Inconel 718 along building direction and sectional dimension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 794, 139941.	2.6	38
24	Manufacturability, Mechanical Properties, Mass-Transport Properties and Biocompatibility of Triply Periodic Minimal Surface (TPMS) Porous Scaffolds Fabricated by Selective Laser Melting. <i>Materials and Design</i> , 2020, 195, 109034.	3.3	101
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27	Additive manufacturing of a shift block via laser powder bed fusion: the simultaneous utilisation of optimised topology and a lattice structure. <i>Virtual and Physical Prototyping</i> , 2020, 15, 460-480.	5.3	36
28	Fabrication of multi-element alloys by twin wire arc additive manufacturing combined with in-situ alloying. <i>Materials Research Letters</i> , 2020, 8, 477-482.	4.1	36
29	Investigation of stiffness and energy absorption of variable dimension helical springs fabricated using multijet fusion technology. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 2591-2602.	1.5	18
30	Five-parameter characterization of intervariant boundaries in additively manufactured Ti-6Al-4V. <i>Materials and Design</i> , 2020, 196, 109177.	3.3	29
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35	Microstructures and unique low thermal expansion of Invar 36 alloy fabricated by selective laser melting. <i>Materials Characterization</i> , 2020, 166, 110409.	1.9	25
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38	Study on the Microstructure and Fatigue Behavior of a Laser-Welded Ni-Based Alloy Manufactured by Selective Laser Melting Method. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 2957-2968.	1.2	15
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49	An analysis of fatigue failure mechanisms in an additively manufactured and shot peened IN 718 nickel superalloy. <i>Materials and Design</i> , 2020, 191, 108605.	3.3	48
50	Additive Manufacturing with Superduplex Stainless Steel Wire by CMT Process. <i>Metals</i> , 2020, 10, 272.	1.0	43
51	The effects of microporosity in struts of gyroid lattice structures produced by laser powder bed fusion. <i>Materials and Design</i> , 2020, 194, 108899.	3.3	43
53	Multiphase mesoscopic simulation of multiple and functionally gradient materials laser powder bed fusion additive manufacturing processes. <i>Additive Manufacturing</i> , 2020, 35, 101448.	1.7	23
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62	Robotics and Additive Manufacturing in the Construction Industry. <i>Current Robotics Reports</i> , 2020, 1, 13-18.	5.1	15
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75	Structure, martensitic transformations and mechanical behaviour of NiTi shape memory alloy produced by wire arc additive manufacturing. Journal of Alloys and Compounds, 2021, 851, 156851.	2.8	57
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83	Microstructural aspects of additive manufacturing of Al Li alloys with high Li content. Materials and Design, 2021, 198, 109323.	3.3	17
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