

Filomeno Martina

List of Publications by Year in descending order

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48
papers

6,308
citations

172386

29
h-index

214721

47
g-index

49
all docs

49
docs citations

49
times ranked

3646
citing authors

#	ARTICLE	IF	CITATIONS
1	Design for Additive Manufacturing: Trends, opportunities, considerations, and constraints. CIRP Annals - Manufacturing Technology, 2016, 65, 737-760.	1.7	1,291
2	Wire + Arc Additive Manufacturing. Materials Science and Technology, 2016, 32, 641-647.	0.8	1,107
3	Investigation of the benefits of plasma deposition for the additive layer manufacture of Ti-6Al-4V. Journal of Materials Processing Technology, 2012, 212, 1377-1386.	3.1	428
4	Metal additive manufacturing in the commercial aviation industry: A review. Journal of Manufacturing Systems, 2019, 53, 124-149.	7.6	344
5	Microstructure and residual stress improvement in wire and arc additively manufactured parts through high-pressure rolling. Journal of Materials Processing Technology, 2013, 213, 1782-1791.	3.1	336
6	A comparative study of additive manufacturing techniques: Residual stress and microstructural analysis of CLAD and WAAM printed Ti-6Al-4V components. Materials and Design, 2016, 89, 559-567.	3.3	296
7	The effectiveness of combining rolling deformation with Wire-Arc Additive Manufacture on $\hat{\gamma}^2$ -grain refinement and texture modification in Ti-6Al-4V. Materials Characterization, 2016, 114, 103-114.	1.9	245
8	Microstructure of Interpass Rolled Wire + Arc Additive Manufacturing Ti-6Al-4V Components. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 6103-6118.	1.1	218
9	On the origin of microstructural banding in Ti-6Al4V wire-arc based high deposition rate additive manufacturing. Acta Materialia, 2019, 166, 306-323.	3.8	181
10	Residual stress of as-deposited and rolled wire+arc additive manufacturing Ti-6Al-4V components. Materials Science and Technology, 2016, 32, 1439-1448.	0.8	160
11	Application of bulk deformation methods for microstructural and material property improvement and residual stress and distortion control in additively manufactured components. Scripta Materialia, 2017, 135, 111-118.	2.6	141
12	Microstructural evolution and mechanical properties of maraging steel produced by wire + arc additive manufacture process. Materials Characterization, 2018, 143, 152-162.	1.9	137
13	A modular path planning solution for Wire + Arc Additive Manufacturing. Robotics and Computer-Integrated Manufacturing, 2019, 60, 1-11.	6.1	98
14	Design for Wire + Arc Additive Manufacture: design rules and build orientation selection. Journal of Engineering Design, 2017, 28, 568-598.	1.1	91
15	A review of Additive Manufacturing technology and Cost Estimation techniques for the defence sector. CIRP Journal of Manufacturing Science and Technology, 2017, 19, 117-128.	2.3	90
16	Tandem metal inert gas process for high productivity wire arc additive manufacturing in stainless steel. Additive Manufacturing, 2019, 25, 545-550.	1.7	89
17	Designing a WAAM Based Manufacturing System for Defence Applications. Procedia CIRP, 2015, 37, 48-53.	1.0	82
18	Fracture toughness and fatigue crack growth rate properties in wire+arc additive manufactured Ti-6Al-4V. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 790-803.	1.7	80

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19	Development of a laminar flow local shielding device for wire + arc additive manufacture. Journal of Materials Processing Technology, 2015, 226, 99-105.	3.1	73
20	Analysis of fracture toughness properties of wire + arc additive manufactured high strength low alloy structural steel components. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138285.	2.6	67
21	Analytical process model for wire+arc additive manufacturing. Additive Manufacturing, 2018, 21, 651-657.	1.7	61
22	High Pressure Interpass Rolling of Wire + Arc Additively Manufactured Titanium Components. Advanced Materials Research, 0, 996, 694-700.	0.3	55
23	Multi-criteria environmental and economic impact assessment of wire arc additive manufacturing. CIRP Annals - Manufacturing Technology, 2020, 69, 37-40.	1.7	55
24	Development of Wire + Arc additive manufacture for the production of large-scale unalloyed tungsten components. International Journal of Refractory Metals and Hard Materials, 2019, 82, 329-335.	1.7	51
25	Functionally graded structures of refractory metals by wire arc additive manufacturing. Science and Technology of Welding and Joining, 2019, 24, 495-503.	1.5	51
26	Wire plus arc additive manufactured functional steel surfaces enhanced by rolling. International Journal of Fatigue, 2020, 130, 105237.	2.8	48
27	Laser stabilization of GMAW additive manufacturing of Ti-6Al-4V components. Journal of Materials Processing Technology, 2019, 272, 1-8.	3.1	40
28	Improving mechanical properties of wire plus arc additively manufactured maraging steel through plastic deformation enhanced aging response. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 747, 111-118.	2.6	35
29	On the observation of annealing twins during simulating $\hat{\Gamma}^2$ -grain refinement in Ti-6Al-4V high deposition rate AM with in-process deformation. Acta Materialia, 2020, 186, 229-241.	3.8	33
30	Effect of deposition strategies on fatigue crack growth behaviour of wire + arc additive manufactured titanium alloy Ti-6Al-4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141194.	2.6	33
31	A comparison framework to support the selection of the best additive manufacturing process for specific aerospace applications. International Journal of Rapid Manufacturing, 2020, 9, 194.	0.5	31
32	Numerical Investigation of the Effect of Rolling on the Localized Stress and Strain Induction for Wire+Arc Additive Manufactured Structures. Journal of Materials Engineering and Performance, 2019, 28, 4931-4942.	1.2	30
33	Microstructure, hardness and mechanical properties of two different unalloyed tantalum wires deposited via wire + arc additive manufacture. International Journal of Refractory Metals and Hard Materials, 2019, 83, 104974.	1.7	30
34	Microstructure and thermal properties of unalloyed tungsten deposited by Wire+ Arc Additive Manufacture. Journal of Nuclear Materials, 2019, 522, 45-53.	1.3	30
35	Grain refinement in an unalloyed tantalum structure by combining Wire+Arc additive manufacturing and vertical cold rolling. Additive Manufacturing, 2020, 32, 101009.	1.7	28
36	Mechanical performance and microstructural characterisation of titanium alloy-alloy composites built by wire-arc additive manufacture. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138289.	2.6	26

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37	The effect of loading direction on strain localisation in wire arc additively manufactured Ti-6Al-4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139608.	2.6	20
38	Quantification of strain fields and grain refinement in Ti-6Al-4V inter-pass rolled wire-arc AM by EBSD misorientation analysis. Materials Characterization, 2020, 170, 110673.	1.9	18
39	Defining Next-Generation Additive Manufacturing Applications for the Ministry of Defence (MoD). Procedia CIRP, 2016, 55, 302-307.	1.0	17
40	Mechanical Properties Enhancement of Additive Manufactured Ti-6Al-4V by Machine Hammer Peening. Lecture Notes in Mechanical Engineering, 2020, , 121-132.	0.3	17
41	A System Approach for Modelling Additive Manufacturing in Defence Acquisition Programs. Procedia CIRP, 2018, 67, 209-214.	1.0	10
42	Spatially resolved acoustic spectroscopy for integrity assessment in wire-arc additive manufacturing. Additive Manufacturing, 2019, 28, 236-251.	1.7	10
43	A comparison framework to support the selection of the best additive manufacturing process for specific aerospace applications. International Journal of Rapid Manufacturing, 2020, 9, 1.	0.5	8
44	Compression Behaviour of Wire + Arc Additive Manufactured Structures. Metals, 2021, 11, 877.	1.0	7
45	Effect of shielding gas composition and welding speed on autogenous welds of unalloyed tungsten plates. International Journal of Refractory Metals and Hard Materials, 2019, 85, 105043.	1.7	5
46	High Cycle Fatigue and Fatigue Crack Growth Rate in Additive Manufactured Titanium Alloys. Lecture Notes in Mechanical Engineering, 2020, , 31-42.	0.3	2
47	Microscopic strain localisation in WAAM Ti-6Al-4V during uniaxial tensile loading. MATEC Web of Conferences, 2020, 321, 03008.	0.1	2
48	Numerical study of rolling process on the plastic strain distribution in wire + arc additive manufactured Ti-6Al-4V. AIP Conference Proceedings, 2019, , .	0.3	0