

Paul Colegrove

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

3,707
citations

28
h-index

51
g-index

51
ext. papers

4,503
ext. citations

4.5
avg, IF

5.61
L-index

#	Paper	IF	Citations
51	Influence of shielding gas nozzle design on power density distribution in low-current TIG welding arcs. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020 , 64, 831-845	1.9	1
50	Metal transfer modes in plasma Wire + Arc additive manufacture. <i>Journal of Materials Processing Technology</i> , 2019 , 264, 45-54	5.3	20
49	Interpass rolling of Ti-6Al-4V wire + arc additively manufactured features for microstructural refinement. <i>Additive Manufacturing</i> , 2018 , 21, 340-349	6.1	86
48	Arc instabilities during split anode calorimetry with the TIG welding process. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018 , 62, 831-845	1.9	3
47	Analytical process model for wire + arc additive manufacturing. <i>Additive Manufacturing</i> , 2018 , 21, 651-658	5.1	40
46	Numerical analysis of heat transfer and fluid flow in multilayer deposition of PAW-based wire and arc additive manufacturing. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 504-516	4.9	106
45	A System Approach for Modelling Additive Manufacturing in Defence Acquisition Programs. <i>Procedia CIRP</i> , 2018 , 67, 209-214	1.8	8
44	Additive manufacturing applications in Defence Support Services: current practices and framework for implementation. <i>International Journal of Systems Assurance Engineering and Management</i> , 2018 , 9, 657-674	1.3	1
43	A literature review of Ti-6Al-4V linear friction welding. <i>Progress in Materials Science</i> , 2018 , 92, 225-257	42.2	78
42	A computationally efficient thermal modelling approach of the linear friction welding process. <i>Journal of Materials Processing Technology</i> , 2018 , 252, 849-858	5.3	14
41	Weld-bonded stainless steel to carbon fibre-reinforced plastic joints. <i>Journal of Materials Processing Technology</i> , 2018 , 251, 241-250	5.3	16
40	Realisation of a multi-sensor framework for process monitoring of the wire arc additive manufacturing in producing Ti-6Al-4V parts. <i>International Journal of Computer Integrated Manufacturing</i> , 2018 , 31, 785-798	4.3	30
39	Control of residual stress and distortion in aluminium wire + arc additive manufacture with rolling. <i>Additive Manufacturing</i> , 2018 , 22, 775-783	6.1	69
38	Investigation of low current gas tungsten arc welding using split anode calorimetry. <i>Science and Technology of Welding and Joining</i> , 2017 , 22, 71-78	3.7	8
37	Alternative friction stir welding technology for titaniumAlV propellant tanks within the space industry. <i>Science and Technology of Welding and Joining</i> , 2017 , 22, 300-318	3.7	22
36	Investigation of post-weld rolling methods to reduce residual stress and distortion. <i>Journal of Materials Processing Technology</i> , 2017 , 247, 243-256	5.3	35
35	3D modelling of TiAlV linear friction welds. <i>Science and Technology of Welding and Joining</i> , 2017 , 22, 496-504	3.7	19

34	A review of Additive Manufacturing technology and Cost Estimation techniques for the defence sector. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2017 , 19, 117-128	3.4	61
33	Application of bulk deformation methods for microstructural and material property improvement and residual stress and distortion control in additively manufactured components. <i>Scripta Materialia</i> , 2017 , 135, 111-118	5.6	82
32	Improvement of microstructure and mechanical properties in Wire + Arc Additively Manufactured Ti-6Al-4V with Machine Hammer Peening. <i>Procedia Engineering</i> , 2017 , 216, 8-17		28
31	The effectiveness of combining rolling deformation with Wire+Arc Additive Manufacture on grain refinement and texture modification in Ti6Al4V. <i>Materials Characterization</i> , 2016 , 114, 103-114	3.9	156
30	Wire + Arc Additive Manufacturing. <i>Materials Science and Technology</i> , 2016 , 32, 641-647	1.5	713
29	Residual stress of as-deposited and rolled wire+arc additive manufacturing Ti6Al4V components. <i>Materials Science and Technology</i> , 2016 , 32, 1439-1448	1.5	91
28	Effect of nitrogen in backing gas on duplex root weld properties of heavy-walled pipe. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016 , 60, 877-882	1.9	4
27	Development of a laminar flow local shielding device for wire + arc additive manufacture. <i>Journal of Materials Processing Technology</i> , 2015 , 226, 99-105	5.3	53
26	Designing a WAAM Based Manufacturing System for Defence Applications. <i>Procedia CIRP</i> , 2015 , 37, 48-53.8		57
25	A computationally efficient finite element model of wire and arc additive manufacture. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 70, 227-236	3.2	109
24	High Pressure Interpass Rolling of Wire + Arc Additively Manufactured Titanium Components. <i>Advanced Materials Research</i> , 2014 , 996, 694-700	0.5	37
23	Assessment of residual stress of welded structural steel plates with or without post weld rolling using the contour method and neutron diffraction. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 2323-2328	5.3	31
22	Neutron Diffraction Analysis of Complete Residual Stress Tensors in Conventional and Rolled Gas Metal Arc Welds. <i>Experimental Mechanics</i> , 2013 , 53, 195-204	2.6	7
21	Microstructure and Mechanical Properties of Wire and Arc Additive Manufactured Ti-6Al-4V. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 968-977	2.3	388
20	Microstructure and residual stress improvement in wire and arc additively manufactured parts through high-pressure rolling. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 1782-1791	5.3	220
19	Numerical investigation of the tool contact condition during friction stir welding of aerospace aluminium alloy. <i>Computational Materials Science</i> , 2013 , 71, 101-108	3.2	33
18	High pressure rolling of low carbon steel weld seams: Part 1 [Effects on mechanical properties and microstructure. <i>Science and Technology of Welding and Joining</i> , 2013 , 18, 76-83	3.7	7
17	High pressure rolling of low carbon steel weld seams: Part 2 [Roller geometry and residual stress. <i>Science and Technology of Welding and Joining</i> , 2013 , 18, 84-90	3.7	14

16	Hybrid modelling of 7449-T7 aluminium alloy friction stir welded joints. <i>Science and Technology of Welding and Joining</i> , 2013 , 18, 147-153	3.7	15
15	Liquation and post-weld heat treatment cracking in Rene 80 laser repair welds. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 188-197	5.3	23
14	Experimental measurement of biaxial thermal stress fields caused by arc welding. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 962-968	5.3	16
13	Investigation of the benefits of plasma deposition for the additive layer manufacture of Ti6Al4V. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 1377-1386	5.3	319
12	Residual strain measurement for arc welding and localised high-pressure rolling using resistance strain gauges and neutron diffraction. <i>Journal of Strain Analysis for Engineering Design</i> , 2012 , 47, 576-586 ¹⁻³		6
11	Effect of high pressure rolling on weld-induced residual stresses. <i>Science and Technology of Welding and Joining</i> , 2012 , 17, 394-401	3.7	22
10	Comparison of joining efficiency and residual stresses in laser and laser hybrid welding. <i>Science and Technology of Welding and Joining</i> , 2011 , 16, 244-248	3.7	17
9	Measuring the process efficiency of controlled gas metal arc welding processes. <i>Science and Technology of Welding and Joining</i> , 2011 , 16, 412-417	3.7	82
8	Energy and force analysis of linear friction welds in medium carbon steel. <i>Science and Technology of Welding and Joining</i> , 2010 , 15, 479-485	3.7	27
7	Rolling to control residual stress and distortion in friction stir welds. <i>Science and Technology of Welding and Joining</i> , 2010 , 15, 440-447	3.7	22
6	Welding process impact on residual stress and distortion. <i>Science and Technology of Welding and Joining</i> , 2009 , 14, 717-725	3.7	64
5	Model for predicting heat generation and temperature in friction stir welding from the material properties. <i>Science and Technology of Welding and Joining</i> , 2007 , 12, 284-297	3.7	116
4	CFD modelling of friction stir welding of thick plate 7449 aluminium alloy. <i>Science and Technology of Welding and Joining</i> , 2006 , 11, 429-441	3.7	89
3	Two-dimensional CFD modelling of flow round profiled FSW tooling. <i>Science and Technology of Welding and Joining</i> , 2004 , 9, 483-492	3.7	62
2	Development of Trivex friction stir welding tool Part 2 Three-dimensional flow modelling. <i>Science and Technology of Welding and Joining</i> , 2004 , 9, 352-361	3.7	78
1	Experimental and numerical analysis of aluminium alloy 7075-T7351 friction stir welds. <i>Science and Technology of Welding and Joining</i> , 2003 , 8, 360-368	3.7	102