

Paul Colegrove

List of Publications by Year in descending order

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51
papers

5,284
citations

172207

29
h-index

189595

50
g-index

51
all docs

51
docs citations

51
times ranked

2671
citing authors

#	ARTICLE	IF	CITATIONS
1	Wire + Arc Additive Manufacturing. <i>Materials Science and Technology</i> , 2016, 32, 641-647.	0.8	1,107
2	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.	1.1	519
3	Investigation of the benefits of plasma deposition for the additive layer manufacture of Ti-6Al-4V. <i>Journal of Materials Processing Technology</i> , 2012, 212, 1377-1386.	3.1	428
4	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.	3.1	336
5	The effectiveness of combining rolling deformation with Wire-Arc Additive Manufacture on $\hat{\gamma}^2$ -grain refinement and texture modification in Ti-6Al-4V. <i>Materials Characterization</i> , 2016, 114, 103-114.	1.9	245
6	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.	2.5	173
7	Residual stress of as-deposited and rolled wire+arc additive manufacturing Ti-6Al-4V components. <i>Materials Science and Technology</i> , 2016, 32, 1439-1448.	0.8	160
8	A computationally efficient finite element model of wire and arc additive manufacture. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 227-236.	1.5	150
9	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.	2.6	141
10	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.	1.5	132
11	A literature review of Ti-6Al-4V linear friction welding. <i>Progress in Materials Science</i> , 2018, 92, 225-257.	16.0	124
12	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.	1.5	123
13	Interpass rolling of Ti-6Al-4V wire+arc additively manufactured features for microstructural refinement. <i>Additive Manufacturing</i> , 2018, 21, 340-349.	1.7	113
14	Measuring the process efficiency of controlled gas metal arc welding processes. <i>Science and Technology of Welding and Joining</i> , 2011, 16, 412-417.	1.5	108
15	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.	1.5	106
16	Control of residual stress and distortion in aluminium wire + arc additive manufacture with rolling. <i>Additive Manufacturing</i> , 2018, 22, 775-783.	1.7	94
17	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.	1.5	90
18	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.	2.3	90

#	ARTICLE	IF	CITATIONS
19	Welding process impact on residual stress and distortion. Science and Technology of Welding and Joining, 2009, 14, 717-725.	1.5	89
20	Designing a WAAM Based Manufacturing System for Defence Applications. Procedia CIRP, 2015, 37, 48-53.	1.0	82
21	Two-dimensional CFD modelling of flow round profiled FSW tooling. Science and Technology of Welding and Joining, 2004, 9, 483-492.	1.5	76
22	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
23	Analytical process model for wire+arc additive manufacturing. Additive Manufacturing, 2018, 21, 651-657.	1.7	61
24	High Pressure Interpass Rolling of Wire + Arc Additively Manufactured Titanium Components. Advanced Materials Research, 0, 996, 694-700.	0.3	55
25	Realisation of a multi-sensor framework for process monitoring of the wire arc additive manufacturing in producing Ti-6Al-4V parts. International Journal of Computer Integrated Manufacturing, 2018, 31, 785-798.	2.9	52
26	Investigation of post-weld rolling methods to reduce residual stress and distortion. Journal of Materials Processing Technology, 2017, 247, 243-256.	3.1	51
27	Improvement of microstructure and mechanical properties in Wire + Arc Additively Manufactured Ti-6Al-4V with Machine Hammer Peening. Procedia Engineering, 2017, 216, 8-17.	1.2	50
28	Numerical investigation of the tool contact condition during friction stir welding of aerospace aluminium alloy. Computational Materials Science, 2013, 71, 101-108.	1.4	38
29	Metal transfer modes in plasma Wire+Arc additive manufacture. Journal of Materials Processing Technology, 2019, 264, 45-54.	3.1	38
30	Assessment of residual stress of welded structural steel plates with or without post weld rolling using the contour method and neutron diffraction. Journal of Materials Processing Technology, 2013, 213, 2323-2328.	3.1	36
31	Effect of high pressure rolling on weld-induced residual stresses. Science and Technology of Welding and Joining, 2012, 17, 394-401.	1.5	31
32	Alternative friction stir welding technology for titanium+6Al+4V propellant tanks within the space industry. Science and Technology of Welding and Joining, 2017, 22, 300-318.	1.5	31
33	Liquation and post-weld heat treatment cracking in Rene 80 laser repair welds. Journal of Materials Processing Technology, 2012, 212, 188-197.	3.1	29
34	Energy and force analysis of linear friction welds in medium carbon steel. Science and Technology of Welding and Joining, 2010, 15, 479-485.	1.5	28
35	Rolling to control residual stress and distortion in friction stir welds. Science and Technology of Welding and Joining, 2010, 15, 440-447.	1.5	25
36	Weld-bonded stainless steel to carbon fibre-reinforced plastic joints. Journal of Materials Processing Technology, 2018, 251, 241-250.	3.1	24

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37	Experimental measurement of biaxial thermal stress fields caused by arc welding. <i>Journal of Materials Processing Technology</i> , 2012, 212, 962-968.	3.1	21
38	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.	1.5	20
39	3D modelling of TiAl linear friction welds. <i>Science and Technology of Welding and Joining</i> , 2017, 22, 496-504.	1.5	20
40	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.	1.5	19
41	A computationally efficient thermal modelling approach of the linear friction welding process. <i>Journal of Materials Processing Technology</i> , 2018, 252, 849-858.	3.1	18
42	Hybrid modelling of 7449-T7 aluminium alloy friction stir welded joints. <i>Science and Technology of Welding and Joining</i> , 2013, 18, 147-153.	1.5	17
43	A System Approach for Modelling Additive Manufacturing in Defence Acquisition Programs. <i>Procedia CIRP</i> , 2018, 67, 209-214.	1.0	10
44	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.	1.5	9
45	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.	1.0	8
46	Neutron Diffraction Analysis of Complete Residual Stress Tensors in Conventional and Rolled Gas Metal Arc Welds. <i>Experimental Mechanics</i> , 2013, 53, 195-204.	1.1	8
47	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.	1.5	8
48	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.	1.3	6
49	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.	1.5	6
50	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.	1.3	4
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.	1.3	2