

Rui Leal

List of Publications by Year in descending order

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34
papers

1,355
citations

394421

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477307

29
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all docs

34
docs citations

34
times ranked

916
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Developments in Non-Conventional Welding of Materials. <i>Materials</i> , 2022, 15, 171.	2.9	1
2	Joining of Fibre-Reinforced Thermoplastic Polymer Composites by Friction Stir Welding—A Review. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2744.	2.5	9
3	Explosive welding. , 2021, , 207-237.		1
4	Influence of Tool Geometry and Process Parameters on Torque, Temperature, and Quality of Friction Stir Welds in Dissimilar Al Alloys. <i>Materials</i> , 2021, 14, 6020.	2.9	5
5	Aluminum-to-Steel Cladding by Explosive Welding. <i>Metals</i> , 2020, 10, 1062.	2.3	24
6	Explosive welding of aluminium to stainless steel using carbon steel and niobium interlayers. <i>Journal of Materials Processing Technology</i> , 2020, 283, 116707.	6.3	69
7	Nugget Formation and Mechanical Behaviour of Friction Stir Welds of Three Dissimilar Aluminum Alloys. <i>Materials</i> , 2020, 13, 2664.	2.9	7
8	Friction stir welding and explosive welding of aluminum/copper: process analysis. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1243-1250.	4.7	22
9	Microstructure and mechanical behaviour of aluminium-carbon steel and aluminium-stainless steel clads produced with an aluminium interlayer. <i>Materials Characterization</i> , 2019, 155, 109819.	4.4	24
10	Influence of base material properties on copper and aluminium—copper explosive welds. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 501-507.	3.1	26
11	Explosive welding of aluminium to stainless steel. <i>Journal of Materials Processing Technology</i> , 2018, 262, 340-349.	6.3	65
12	Formation of intermetallic structures at the interface of steel-to-aluminium explosive welds. <i>Materials Characterization</i> , 2018, 142, 432-442.	4.4	46
13	Effect of the flyer material on the interface phenomena in aluminium and copper explosive welds. <i>Materials and Design</i> , 2017, 122, 172-183.	7.0	57
14	Effect of explosive ratio on explosive welding quality of copper to aluminium. <i>Ciência & Tecnologia Dos Materiais</i> , 2017, 29, e46-e50.	0.5	7
15	Effect of explosive mixture on quality of explosive welds of copper to aluminium. <i>Materials and Design</i> , 2016, 95, 256-267.	7.0	65
16	Effect of friction stir processing parameters on the microstructural and electrical properties of copper. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 80, 1655-1663.	3.0	30
17	Influence of tool shoulder geometry on properties of friction stir welds in thin copper sheets. <i>Journal of Materials Processing Technology</i> , 2013, 213, 129-135.	6.3	76
18	Grain size refinement of Copper DHP by Solid State Processing. <i>Microscopy and Microanalysis</i> , 2013, 19, 127-128.	0.4	0

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19	Determination of local constitutive properties of aluminium friction stir welds using digital image correlation. <i>Materials & Design</i> , 2012, 33, 69-74.	5.1	124
20	Microstructural and mechanical characterisation of 5XXX-H111 friction stir welded tailored blanks. <i>Science and Technology of Welding and Joining</i> , 2011, 16, 433-439.	3.1	29
21	Effect of shoulder cavity and welding parameters on friction stir welding of thin copper sheets. <i>Science and Technology of Welding and Joining</i> , 2011, 16, 146-152.	3.1	24
22	Microstructure and Hardness of Friction Stir Welds in Pure Copper. <i>Materials Science Forum</i> , 2010, 636-637, 637-642.	0.3	2
23	Material flow in heterogeneous friction stir welding of aluminium and copper thin sheets. <i>Science and Technology of Welding and Joining</i> , 2010, 15, 654-660.	3.1	101
24	Mechanical behaviour of similar and dissimilar AA5182-H111 and AA6016-T4 thin friction stir welds. <i>Materials & Design</i> , 2009, 30, 101-108.	5.1	109
25	Influence of friction stir welding parameters on the microstructural and mechanical properties of AA 6016-T4 thin welds. <i>Materials & Design</i> , 2009, 30, 1913-1921.	5.1	179
26	Defect formation and microstructural changes in friction stir welds between pure copper and a brass alloy. <i>Microscopy and Microanalysis</i> , 2009, 15, 79-80.	0.4	3
27	Imaging characterization of friction stir welds in the AA 5182-H111 aluminium alloy. <i>Microscopy and Microanalysis</i> , 2009, 15, 81-82.	0.4	0
28	Material flow in heterogeneous friction stir welding of thin aluminium sheets: Effect of shoulder geometry. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 498, 384-391.	5.6	153
29	Effect of overlapping friction stir welding passes in the quality of welds of aluminium alloys. <i>Materials & Design</i> , 2008, 29, 982-991.	5.1	44
30	Material flow in Friction Stir Welding. <i>Microscopy and Microanalysis</i> , 2008, 14, 87-90.	0.4	13
31	Microstructure and Mechanical Properties of Friction Stir Welds in Aluminium Alloys 2024-T3, 5083-O and 6063-T6. <i>Materials Science Forum</i> , 2006, 514-516, 697-701.	0.3	8
32	Defects Formation in Friction Stir Welding of Aluminium Alloys. <i>Materials Science Forum</i> , 2004, 455-456, 299-302.	0.3	25
33	Mechanical Behaviour of FSW Aluminium Tailored Blanks. <i>Materials Science Forum</i> , 0, 587-588, 961-965.	0.3	7
34	Copper/Stainless Steel Friction Stir Spot Welds – Feasibility and Microstructural Analysis. , 0, , .		0