# Rui Leal

List of Publications by Year
in descending order



| 34 | 1,355 | 394286 19 | 477173 29 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 34 | 34 | 34 | 916 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Influence of friction stir welding parameters on the microstructural and mechanical properties of AA 6016-T4 thin welds. Materials & Design, 2009, 30, 1913-1921. | 5.1 | 179 |
| 2 | Material flow in heterogeneous friction stir welding of thin aluminium sheets: Effect of shoulder geometry. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 384-391. | 2.6 | 153 |
| 3 | Determination of local constitutive properties of aluminium friction stir welds using digital image correlation. Materials & Design, 2012, 33, 69-74. | 5.1 | 124 |
| 4 | Mechanical behaviour of similar and dissimilar AA5182-H111 and AA6016-T4 thin friction stir welds. Materials & Design, 2009, 30, 101-108. | 5.1 | 109 |
| 5 | Material flow in heterogeneous friction stir welding of aluminium and copper thin sheets. Science and Technology of Welding and Joining, 2010, 15, 654-660. | 1.5 | 101 |
| 6 | Influence of tool shoulder geometry on properties of friction stir welds in thin copper sheets. Journal of Materials Processing Technology, 2013, 213, 129-135. | 3.1 | 76 |
| 7 | Explosive welding of aluminium to stainless steel using carbon steel and niobium interlayers. Journal of Materials Processing Technology, 2020, 283, 116707. | 3.1 | 69 |
| 8 | Effect of explosive mixture on quality of explosive welds of copper to aluminium. Materials and Design, 2016, 95, 256-267. | 3.3 | 65 |
| 9 | Explosive welding of aluminium to stainless steel. Journal of Materials Processing Technology, 2018, 262, 340-349. | 3.1 | 65 |
| 10 | Effect of the flyer material on the interface phenomena in aluminium and copper explosive welds. Materials and Design, 2017, 122, 172-183. | 3.3 | 57 |
| 11 | Formation of intermetallic structures at the interface of steel-to-aluminium explosive welds. Materials Characterization, 2018, 142, 432-442. | 1.9 | 46 |
| 12 | Effect of overlapping friction stir welding passes in the quality of welds of aluminium alloys. Materials & Design, 2008, 29, 982-991. | 5.1 | 44 |
| 13 | Effect of friction stir processing parameters on the microstructural and electrical properties of copper. International Journal of Advanced Manufacturing Technology, 2015, 80, 1655-1663. | 1.5 | 30 |
| 14 | Microstructural and mechanical characterisation of 5XXX-H111 friction stir welded tailored blanks. Science and Technology of Welding and Joining, 2011, 16, 433-439. | 1.5 | 29 |
| 15 | Influence of base material properties on copper and aluminiumâ€“copper explosive welds. Science and Technology of Welding and Joining, 2018, 23, 501-507. | 1.5 | 26 |
| 16 | Defects Formation in Friction Stir Welding of Aluminium Alloys. Materials Science Forum, 2004, 455-456, 299-302. | 0.3 | 25 |
| 17 | Effect of shoulder cavity and welding parameters on friction stir welding of thin copper sheets. Science and Technology of Welding and Joining, 2011, 16, 146-152. | 1.5 | 24 |
| 18 | Microstructure and mechanical behaviour of aluminium-carbon steel and aluminium-stainless steel clads produced with an aluminium interlayer. Materials Characterization, 2019, 155, 109819. | 1.9 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Aluminum-to-Steel Cladding by Explosive Welding. Metals, 2020, 10, 1062. | 1.0 | 24 |
| 20 | Friction stir welding and explosive welding of aluminum/copper: process analysis. Materials and Manufacturing Processes, 2019, 34, 1243-1250. | 2.7 | 22 |
| 21 | Material flow in Friction Stir Welding. Microscopy and Microanalysis, 2008, 14, 87-90. | 0.2 | 13 |
| 22 | Joining of Fibre-Reinforced Thermoplastic Polymer Composites by Friction Stir Weldingâ€"A Review. Applied Sciences (Switzerland), 2022, 12, 2744. | 1.3 | 9 |
| 23 | Microstructure and Mechanical Properties of Friction Stir Welds in Aluminium Alloys 2024-T3, 5083-O and 6063-T6. Materials Science Forum, 2006, 514-516, 697-701. | 0.3 | 8 |
| 24 | Mechanical Behaviour of FSW Aluminium Tailored Blanks. Materials Science Forum, 0, 587-588, 961-965. | 0.3 | 7 |
| 25 | Effect of explosive ratio on explosive welding quality of copper to aluminium. CiÃªncia & Tecnologia Dos Materiais, 2017, 29, e46-e50. | 0.5 | 7 |
| 26 | Nugget Formation and Mechanical Behaviour of Friction Stir Welds of Three Dissimilar Aluminum Alloys. Materials, 2020, 13, 2664. | 1.3 | 7 |
| 27 | Influence of Tool Geometry and Process Parameters on Torque, Temperature, and Quality of Friction Stir Welds in Dissimilar Al Alloys. Materials, 2021, 14, 6020. | 1.3 | 5 |
| 28 | Defect formation and microstructural changes in friction stir welds between pure copper and a brass alloy. Microscopy and Microanalysis, 2009, 15, 79-80. | 0.2 | 3 |
| 29 | Microstructure and Hardness of Friction Stir Welds in Pure Copper. Materials Science Forum, 2010, 636-637, 637-642. | 0.3 | 2 |
| 30 | Explosive welding. , 2021, , 207-237. | | 1 |
| 31 | Recent Developments in Non-Conventional Welding of Materials. Materials, 2022, 15, 171. | 1.3 | 1 |
| 32 | Imaging characterization of friction stir welds in the AA 5182-H111 aluminium alloy. Microscopy and Microanalysis, 2009, 15, 81-82. | 0.2 | 0 |
| 33 | Grain size refinement of Copper DHP by Solid State Processing. Microscopy and Microanalysis, 2013, 19, 127-128. | 0.2 | 0 |
| 34 | Copper/Stainless Steel Friction Stir Spot Weldsâ€"Feasibility and Microstructural Analysis. , 0, , . | | 0 |