Palanivel Ramaswamy

List of Publications by Year
in descending order

37 papers	1,219 citations	430874 18 h-index	377865 34 g-index
37 all docs	37 docs citations	37 times ranked	943 citing authors

#	Article	IF	Citations
1	Effect of tool rotational speed and pin profile on microstructure and tensile strength of dissimilar friction stir welded AA5083-H111 and AA6351-T6 aluminum alloys. Materials & Design, 2012, 40, 7-16.	5.1	252
2	Influence of boron nitride nanoparticles on microstructure and wear behavior of AA6082/TiB 2 hybrid aluminum composites synthesized by friction stir processing. Materials and Design, 2016, 106, 195-204.	7.0	135
3	Characterization of molybdenum particles reinforced Al6082 aluminum matrix composites with improved ductility produced using friction stir processing. Materials Characterization, 2017, 125, 13-22.	4.4	103
4	Synthesize of AZ31/TiC magnesium matrix composites using friction stir processing. Journal of Magnesium and Alloys, 2015, 3, 76-78.	11.9	89
5	Development of stainless steel particulate reinforced AA6082 aluminum matrix composites with enhanced ductility using friction stir processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 317-326.	5.6	63
6	Effect of friction stir processing on microstructure and tensile behavior of AA6061/Al3Fe cast aluminum matrix composites. Journal of Alloys and Compounds, 2019, 785, 531-541.	5.5	54
7	Mechanical and metallurgical properties of dissimilar friction stir welded AA5083-H111 and AA6351-T6 aluminum alloys. Transactions of Nonferrous Metals Society of China, 2014, 24, 58-65.	4.2	50
8	Development of mathematical model to predict the mechanical properties of friction stir welded AA6351 aluminum alloy. Journal of Engineering Science and Technology Review, 2011, 4, 25-31.	0.4	43
9	Prediction and optimization of process parameter of friction stir welded AA5083-H111 aluminum alloy using response surface methodology. Journal of Central South University, 2012, 19, 1-8.	3.0	41
10	Friction stir processing of Al3Ni intermetallic particulate reinforced cast aluminum matrix composites: Microstructure and tensile properties. Journal of Materials Research and Technology, 2020, 9, 4356-4367.	5.8	37
11	Optimization of process parameters to maximize ultimate tensile strength of friction stir welded dissimilar aluminum alloys using response surface methodology. Journal of Central South University, 2013, 20, 2929-2938.	3.0	32
12	Tensile strength prediction of dissimilar friction stir-welded AA6351â€“AA5083 using artificial neural network technique. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 1647-1657.	1.6	32
13	Prediction and optimization of the mechanical properties of dissimilar friction stir welding of aluminum alloys using design of experiments. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1384-1394.	2.4	29
14	Influence of friction stir processing on microstructure and tensile behavior of AA6061/Al3Zr cast aluminum matrix composites. Journal of Manufacturing Processes, 2019, 38, 148-157.	5.9	28
15	Microstructure evolution and mechanical characterization of Nd:YAG laser beam welded titanium tubes. Materials Characterization, 2017, 134, 225-235.	4.4	25
16	Assessment of microstructure and tensile behavior of continuous drive friction welded titanium tubes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 687, 249-258.	5.6	23
17	An investigation into the effect of friction welding parameters on tensile strength of titanium tubes by utilizing an empirical relationship. Measurement: Journal of the International Measurement Confederation, 2017, 98, 77-91.	5.0	22
18	Prediction and Optimization of Wear Resistance of Friction Stir Welded Dissimilar Aluminum Alloy. Procedia Engineering, 2012, 38, 578-584.	1.2	21

#	Article	IF	Citations
19	Microstructure and mechanical characterization of continuous drive friction welded grade 2 seamless titanium tubes at different rotational speeds. International Journal of Pressure Vessels and Piping, 2017, 154, 17-28.	2.6	19
20	Effect of Nd:YAG laser welding on microstructure and mechanical properties of Incoloy alloy 800. Optics and Laser Technology, 2021, 140, 107039.	4.6	17
21	Mechanical and wear behavior of LM25 Aluminium matrix hybrid composite reinforced with Boron carbide, Graphite and Iron oxide. Materials Today: Proceedings, 2018, 5, 27852-27860.	1.8	15
22	Application of an artificial neural network model to predict the ultimate tensile strength of friction-welded titanium tubes. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	11
23	A comparative study on microstructure and mechanical properties between friction and laser beam welded titanium tubes. Optik, 2019, 177, 102-111.	2.9	11
24	Predicting the wear rate of AA6082 aluminum surface composites produced by friction stir processing via artificial neural network. Multidiscipline Modeling in Materials and Structures, 2019, 16, 409-423.	1.3	10
25	Microstructure and mechanical behavior of Nd:YAG laser beam welded high strength low alloy steel joints. Optik, 2020, 208, 164050.	2.9	10
26	Application of artificial neural network in predicting the wear rate of copper surface composites produced using friction stir processing. Australian Journal of Mechanical Engineering, 2020, , 1-12.	2.1	9
27	Microstructure and sliding wear behavior of fly ash reinforced dual phase brass surface composites synthesized through friction stir processing. Materials Chemistry and Physics, 2021, 263, 124430.	4.0	8
28	Predicting the tensile strength and deducing the role of processing conditions of hot wire gas tungsten arc welded pure nickel tubes using an empirical relationship. International Journal of Pressure Vessels and Piping, 2020, 188, 104220.	2.6	6
29	Influence of arc duration on microstructure and tensile behavior of magnetically impelled arc butt welded AISI 409 ferritic stainless steel tubes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142257.	5.6	5
30	DEVELOPMENT OF MATHEMATICAL MODEL TO PREDICT THE ULTIMATE TENSILE STRENGTH OF FRICTION STIR WELDED DISSIMILAR ALUMINUM ALLOY. Mechanika, 2012, 18, .	0.5	4
31	An Assessment of Microstructure and Tensile Behavior of Magnetically Impelled Arc Butt Welded AISI 409 Ferritic Stainless Steel Tubes. Journal of Materials Engineering and Performance, 2022, 31, 7808-7819.	2.5	4
32	Effect of Tool pin Profile and Axial Force on Tensile Behavior in Friction Stir Welding of Dissimilar Aluminum Alloys. Advanced Materials Research, 0, 415-417, 1140-1146.	0.3	2
33	In-situ synthesis and microstructural characterization of AA6061/(TiB2â€‾+â€‾TiC) particles in AA6061 aluminium composite. Materials Today: Proceedings, 2021, 43, 2255-2258.	1.8	2
34	Effect of Tool Rotational Speed on the Microstructure and Associated Mechanical Properties of Incrementally Formed Commercially Pure Titanium. Journal of Materials Engineering and Performance, 2021, 30, 7636-7644.	2.5	2
35	Prediction of tensile strength and assessing the influence of process parameters of magnetically impelled arc butt welded AISI 409 ferritic stainless steel tubes. International Journal of Advanced Manufacturing Technology, 2022, 118, 417-432.	3.0	2
36	Developing a friction-stir welding window for joining the dissimilar aluminum alloys AA6351 and AA5083. Materiali in Tehnologije, 2017, 51, 5-9.	0.5	2

#	Article	IF	Citations
37	Assessment of Microstructure and Tensile Behavior of Hot Wire Gas Tungsten Arc Welded Pure Nickel Tubes. Transactions of the Indian Institute of Metals, 2021, 74, 355-368.	1.5	1