

Vaira Vignesh Ramalingam

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.

73
papers

514
citations

13
h-index

19
g-index

80
ext. papers

716
ext. citations

1.4
avg, IF

4.91
L-index

#	Paper	IF	Citations
73	The feasibility of friction stir spot extrusion-brazing of AA5083-H112 aluminum alloy to brass sheets with Zn interlayer. <i>Materials Letters</i> , 2022 , 308, 131084	3.3	4
72	Nanoarchitectonics of AA7075-NbC Surface Composites for Augmenting the Mechanical and Tribological Properties. <i>Journal of Bio- and Tribo-Corrosion</i> , 2022 , 8, 1	2.9	
71	Enhanced mechanical and tribological properties of AA6061/CeO ₂ composite fabricated by friction stir processing. <i>Materials Letters</i> , 2022 , 132210	3.3	0
70	Investigations on the Effect of Cyclic Heat Treatment on the Mechanical Properties of Friction Stir Welded Aluminum Alloys (AA5052 & AA6061). <i>Russian Journal of Non-Ferrous Metals</i> , 2021 , 62, 692-707	0.8	0
69	Improvement of mechanical and wear behavior by the development of a new tool for the friction stir processing of Mg/B ₄ C composite. <i>Surface and Coatings Technology</i> , 2021 , 426, 127797	4.4	8
68	Optimizing the Conveyor Belt Speed of a Bright Annealing Furnace. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 13-20	0.4	
67	Investigation on the microstructure, microhardness, and tribological behavior of AA1100-hBN surface composite. <i>Koroze A Ochrana Materialu</i> , 2021 , 65, 1-11	0.3	4
66	Impact of laser surface texturing (LST) on the tribological characteristics of piston rings and cylinder liners – a review. Part 1: development of LST technology. <i>Transactions of the Institute of Metal Finishing</i> , 2021 , 99, 231-237	1.3	2
65	Development of fly ash based friction material for wind turbines by liquid phase sintering technology. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2021 , 235, 1463-1469	1.4	5
64	Elimination of casting defects induced by cold box cores. <i>Materials Today: Proceedings</i> , 2021 , 46, 5022-5026	1.4	1
63	Vacuum brazing of mild steel using eutectic CuSi1 brazing alloy. <i>Materials Today: Proceedings</i> , 2021 , 46, 4919-4924	1.4	
62	Manufacturing of continuous fiber reinforced sintered brake pad and friction material. <i>Materials Today: Proceedings</i> , 2021 , 46, 4493-4496	1.4	4
61	Design, fabrication, and analysis of cost effective steel honeycomb structures. <i>Materials Today: Proceedings</i> , 2021 , 46, 4520-4526	1.4	2
60	Soft computing model for predicting the wear resistance of friction stir processed aluminum alloy AA5083. <i>Materials Today: Proceedings</i> , 2021 , 46, 7236-7243	1.4	2
59	Influence of tool traverse speed on microstructure and mechanical properties of CuNi/B ₄ C surface composites. <i>Transactions of the Institute of Metal Finishing</i> , 2021 , 99, 38-45	1.3	3
58	Finite element modelling of thermal history during friction stir processing of AA5052. <i>Materials Today: Proceedings</i> , 2021 , 46, 7452-7458	1.4	1
57	Investigations on the Mechanical and Tribological Performance of Nickel Aluminum Bronze- CaCO ₃ Composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1059, 012059	0.4	1

56	A comparative study on weld characteristics of AA5083-H112 to AA6061-T6 sheets produced by MFSC and FSSW processes. <i>Vacuum</i> , 2021 , 190, 110298	3.7	5
55	Development and characterization of aluminum matrix composite reinforced with continuous stainless-steel fibers. <i>Materials Today: Proceedings</i> , 2021 , 45, 7816-7821	1.4	3
54	Fabrication of fly-ash based tiles using liquid phase sintering technology. <i>Materials Today: Proceedings</i> , 2021 , 46, 7224-7229	1.4	1
53	Artificial neural network models for predicting the corrosion behavior of friction stir processed AA5083. <i>Materials Today: Proceedings</i> , 2021 , 46, 7215-7219	1.4	1
52	Investigations on the Creep Behavior of Friction-Stir-Processed Magnesium Alloy AE42. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 3172-3182	1.6	3
51	Modified Friction stir clinching of 2024-T3 to 6061-T6 aluminium alloy: Effect of dwell time and precipitation-hardening heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 791, 139734	5.3	29
50	Effect of shoulder features during friction spot extrusion welding of 2024-T3 to 6061-T6 aluminium alloys. <i>Archives of Civil and Mechanical Engineering</i> , 2020 , 20, 1	3.4	14
49	Investigations on the tribological behavior of functionally gradient iron-based brake pad material. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020 , 234, 2474-2486	1.3	8
48	Development and characterization of dissimilar joint between AA2024-T3 and AA6061-T6 by modified friction stir clinching process. <i>Vacuum</i> , 2020 , 176, 109298	3.7	24
47	Effect of friction stir welding process parameters on the tensile strength of dissimilar aluminum alloy AA2024-T3 and AA7075-T6 joints. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020 , 51, 17-27	0.9	13
46	Effect of Fe particles on the microstructural evolution and mechanical properties of friction welded Al-Cu components. <i>Australian Journal of Mechanical Engineering</i> , 2020 , 1-11	1	1
45	Characterization of AZ31-NbC surface composite fabricated by friction stir processing. <i>Koroze A Ochrana Materialu</i> , 2020 , 64, 29-37	0.3	
44	Parametric Study on the Spring-Back Effect in AA5052 Alloy in the Course of Three-Point Roll Bending Process. <i>Acta Mechanica Et Automatica</i> , 2020 , 14, 128-134	0.7	
43	Effect of heat treatment on the mechanical and wear behavior of friction stir processed AA5052 alloy. <i>Materials Today: Proceedings</i> , 2020 , 22, 3340-3346	1.4	6
42	Study on the corrosion and wear characteristics of magnesium alloy AZ91D in simulated body fluids. <i>Bulletin of Materials Science</i> , 2020 , 43, 1	1.7	6
41	Friction Welding of Cast Iron and Phosphor Bronze. <i>Journal of the Institution of Engineers (India): Series C</i> , 2020 , 101, 347-354	0.9	3
40	Effect of friction stir processing and heat treatment on the corrosion properties of AZ31 alloy. <i>Australian Journal of Mechanical Engineering</i> , 2020 , 1-10	1	6
39	Synthesis and Characterization of Magnesium Alloy Surface Composite (AZ91D - SiO ₂) by Friction Stir Processing for Bioimplants. <i>Silicon</i> , 2020 , 12, 1085-1102	2.4	12

38	Research and Development in Magnesium Alloys for Industrial and Biomedical Applications: A Review. <i>Metals and Materials International</i> , 2020 , 26, 409-430	2.4	68
37	Simulation of Friction Stir Welding of Aluminium Alloy AA5052 Tailor Welded Blanks. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 113-122	0.4	
36	Corrosion protection of magnesium alloys in simulated body fluids using nanophase Al ₂ O ₃ 2020 , 21-45		1
35	Dissimilar modified friction stir clinching of AA2024-AA6061 aluminum alloys: Effects of materials positioning. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 6037-6047	5.5	30
34	Investigations on the corrosion behaviour and biocompatibility of magnesium alloy surface composites AZ91D-ZrO ₂ fabricated by friction stir processing. <i>Transactions of the Institute of Metal Finishing</i> , 2019 , 97, 261-270	1.3	13
33	Tribological performance of heavy-duty functionally gradient friction material (Cu-Sn-Fe-Cg-SiC-Al ₂ O ₃) synthesized by PM route 2019 ,		3
32	Tribological Properties of B ₄ C Nano Particulates Reinforced Copper Matrix Nanocomposites. <i>Materials Today: Proceedings</i> , 2019 , 16, 584-591	1.4	2
31	Investigations on the surface topography, corrosion behavior, and biocompatibility of friction stir processed magnesium alloy AZ91D. <i>Surface Topography: Metrology and Properties</i> , 2019 , 7, 025020	1.5	19
30	Mechanical properties and corrosion behaviour of AZ91D-HAP surface composites fabricated by friction stir processing. <i>Materials Research Express</i> , 2019 , 6, 085401	1.7	12
29	Investigations on the Tribological Properties of Heat-Treated Copper Composite Using Hybrid Quadratic Radial Basis Function Model. <i>Transactions of the Indian Institute of Metals</i> , 2019 , 72, 3117-3128	1.2	0
28	Effect of Heat Treatment on the Microstructure and Mechanical Properties of the Friction Stir Processed AZ91D Magnesium Alloy. <i>Metal Science and Heat Treatment</i> , 2019 , 61, 311-317	0.6	10
27	Effect of composition and aging time on hardness and wear behavior of Cu-Ni-Sn spinodal alloy. <i>Journal of Central South University</i> , 2019 , 26, 2634-2642	2.1	4
26	Microstructure, hardness and corrosion behaviour of friction-stir processed AA5083. <i>Anti-Corrosion Methods and Materials</i> , 2019 , 66, 791-801	0.8	6
25	Effect of load, sliding distance and sliding velocity on the wear properties of aluminum alloy AA5052. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 577, 012016	0.4	
24	Predicting the Wear Rate of Aluminum Alloy AA2024-T351 using Hybrid Linear function and Radial Basis Function. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 561, 012046	0.4	5
23	Modelling of peak temperature during friction stir processing of magnesium alloy AZ91. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 310, 012019	0.4	10
22	Analysing the influence of FSP process parameters on IGC susceptibility of AA5083 using Sugeno Fuzzy model. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 310, 012045	0.4	2
21	Comparison of Statistical and Soft Computing Models for Predicting Hardness and Wear Rate of Cu-Ni-Sn Alloy. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 559-571	0.4	6

20	Influence of FSP on the microstructure, microhardness, intergranular corrosion susceptibility and wear resistance of AA5083 alloy. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2018 , 12, 157-169	1.4	25
19	Comparison of ANN Training Algorithms for Predicting the Tensile Strength of Friction Stir Welded Aluminium Alloy AA1100. <i>International Journal of Vehicle Structures and Systems</i> , 2018 , 10,	2.1	2
18	Analysing the strength of friction stir welded dissimilar aluminium alloys using Sugeno Fuzzy model. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 310, 012043	0.4	3
17	Study of the effect of parameters in friction surfacing of Monel over Mild Steel using linear Radial basis function model. <i>Materials Today: Proceedings</i> , 2018 , 5, 8604-8611	1.4	3
16	Intergranular corrosion susceptibility of friction stir processed aluminium alloy 5083. <i>Materials Today: Proceedings</i> , 2018 , 5, 16443-16452	1.4	5
15	Friction surfacing mild-steel with Monel and predicting the coating parameters using fuzzy logic. <i>Materials Today: Proceedings</i> , 2018 , 5, 16402-16410	1.4	2
14	Artificial neural network model for predicting the tensile strength of friction stir welded aluminium alloy AA1100. <i>Materials Today: Proceedings</i> , 2018 , 5, 16716-16723	1.4	4
13	Optimizing the tensile strength of friction stir welded dissimilar aluminium alloy joints using particle swarm optimization. <i>Materials Today: Proceedings</i> , 2018 , 5, 24820-24826	1.4	6
12	Soft computing model for analysing the effect of friction stir processing parameters on the intergranular corrosion susceptibility of aluminium alloy AA5083. <i>Koroze A Ochrana Materialu</i> , 2018 , 62, 97-107	0.3	4
11	Influence of friction stir processing parameters on the wear resistance of aluminium alloy AA5083. <i>Materials Today: Proceedings</i> , 2018 , 5, 7437-7446	1.4	13
10	Forecasting Tribological Properties of Wrought AZ91D Magnesium Alloy Using Soft Computing Model. <i>Russian Journal of Non-Ferrous Metals</i> , 2018 , 59, 135-141	0.8	14
9	Modelling tensile strength of friction stir welded aluminium alloy 1100 using fuzzy logic 2017 ,		4
8	Modelling Corrosion Behavior of Friction Stir Processed Aluminium Alloy 5083 Using Polynomial: Radial Basis Function. <i>Transactions of the Indian Institute of Metals</i> , 2017 , 70, 2575-2589	1.2	31
7	Investigations on the mechanical properties of MWCNT reinforced ASTM A48 by testing & mathematical modelling 2016 ,		2
6	Numerical modelling of thermal phenomenon in friction stir welding of aluminum plates. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 149, 012208	0.4	22
5	Analysing the strength of friction stir spot welded joints of aluminium alloy by fuzzy logic. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 149, 012136	0.4	7
4	Experimental Study on Laser Welding of AISI 304 Steel with Design of Experiments Approach. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 577, 012117	0.4	
3	Metallurgical Characterization and Mechanical Properties of Solid-Liquid Compound Casting of Aluminum Alloy: Steel Bimetallic Materials. <i>Metals and Materials International</i> , 2016 , 1	2.4	0

2	Effect of Nd:YAG Pulsed-Laser Welding Parameters on Melting Rate of GTD-111 Superalloy Joint. <i>Journal of Materials Engineering and Performance</i> ,1	1.6	4
1	Impact of laser surface texturing (LST) on the tribological characteristics of piston rings and cylinder liners – a review. Part 2: application of the process. <i>Transactions of the Institute of Metal Finishing</i> ,1-9	1.3	0