

# Rajesh Jesudoss Hynes N.

## List of Publications by Year in descending order

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93  
papers

1,593  
citations

304743

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345221

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93  
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93  
docs citations

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times ranked

901  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modern enabling techniques and adsorbents based dye removal with sustainability concerns in textile industrial sector -A comprehensive review. <i>Journal of Cleaner Production</i> , 2020, 272, 122636.	9.3	153
2	Characterization of New Natural Cellulosic Fiber from <i>Heteropogon Contortus</i> Plant. <i>Journal of Natural Fibers</i> , 2018, 15, 146-153.	3.1	124
3	A comprehensive review on research developments of vegetable-oil based cutting fluids for sustainable machining challenges. <i>Journal of Manufacturing Processes</i> , 2021, 67, 286-313.	5.9	99
4	Physicochemical and Thermal Properties of <i>Ceiba pentandra</i> Bark Fiber. <i>Journal of Natural Fibers</i> , 2018, 15, 822-829.	3.1	84
5	Characterization of natural cellulosic fiber from <i>Epipremnum aureum</i> stem. <i>Journal of Natural Fibers</i> , 2018, 15, 789-798.	3.1	75
6	Investigation on Joining of Aluminum and Mild Steel by Friction Stud Welding. <i>Materials and Manufacturing Processes</i> , 2012, 27, 1409-1413.	4.7	61
7	Effect of rotational speed on Ti-6Al-4V-AA 6061 friction welded joints. <i>Journal of Manufacturing Processes</i> , 2018, 32, 288-297.	5.9	55
8	Numerical Simulation of Heat Flow in Friction Stud Welding of Dissimilar Metals. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 3217-3224.	1.1	42
9	Ultrasonic evaluation of friction stud welded AA 6063/AISI 1030 steel joints. <i>Materials &amp; Design</i> , 2014, 62, 118-123.	5.1	41
10	Aerva lanata flowers extract as green corrosion inhibitor of low-carbon steel in HCl solution: an in vitro study. <i>Chemical Papers</i> , 2021, 75, 1165-1174.	2.2	38
11	Mechanical Evaluation and Microstructure of Friction Stud Welded Aluminium-Mild steel Joints. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 5017-5023.	1.1	37
12	Process optimization for maximizing bushing length in thermal drilling using integrated ANN-SA approach. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 5097-5108.	1.6	35
13	Simulation of friction welding of alumina and steel with aluminum interlayer. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 121-127.	3.0	33
14	Mechanical and tribological characteristics of boron carbide reinforcement of AA6061 matrix composite. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	32
15	Joining of hybrid AA6063-6SiC p -3Gr p composite and AISI 1030 steel by friction welding. <i>Defence Technology</i> , 2017, 13, 338-345.	4.2	31
16	Investigate the influence of bonding temperature in transient liquid phase bonding of SiC and copper. <i>Ceramics International</i> , 2017, 43, 7762-7767.	4.8	30
17	Finite-element simulation and validation of material flow in thermal drilling process. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	28
18	Electrochemical Machining of Aluminium Metal Matrix Composites. <i>Surface Engineering and Applied Electrochemistry</i> , 2018, 54, 367-373.	0.8	28

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19	Friction push plug welding in airframe structures using Ti-6Al-4V plug. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	26
20	A comparative study of the mechanical and tribological behaviours of different aluminium matrix ceramic composites. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	26
21	Prediction and optimization of surface roughness in thermal drilling using integrated ANFIS and GA approach. Engineering Science and Technology, an International Journal, 2020, 23, 30-41.	3.2	26
22	Prospects of joining multi-material structures. AIP Conference Proceedings, 2018, , .	0.4	23
23	Thermal Analysis on Joining of Dissimilar Metals by Friction Stud Welding. Advanced Materials Research, 2014, 984-985, 592-595.	0.3	22
24	Microstructural and mechanical properties on friction welding of dissimilar metals used in motor vehicles. Materials Research Express, 2018, 5, 026521.	1.6	22
25	Multi-objective optimization of green technology thermal drilling process using grey-fuzzy logic method. Journal of Cleaner Production, 2019, 236, 117711.	9.3	22
26	Optimum bushing length in thermal drilling of galvanized steel using artificial neural network coupled with genetic algorithm. Materiali in Tehnologije, 2017, 51, 813-822.	0.5	22
27	Mathematical Modeling of Friction Plug Welding with Preheating Effect. Advanced Materials Research, 0, 984-985, 600-603.	0.3	18
28	Production of aluminium metal matrix composites by liquid processing methods. AIP Conference Proceedings, 2016, , .	0.4	15
29	Thermal analysis of friction riveting of dissimilar materials. AIP Conference Proceedings, 2018, , .	0.4	15
30	Mechanical properties and applications of fibre metal laminates. AIP Conference Proceedings, 2019, , .	0.4	15
31	Numerical analysis on thermal drilling of aluminum metal matrix composite. AIP Conference Proceedings, 2016, , .	0.4	14
32	Thermal drilling processing on sheet metals: A review. International Journal of Lightweight Materials and Manufacture, 2019, 2, 193-205.	2.1	14
33	Graphene-based nano metal matrix composites: A review. , 2019, , 153-170.		14
34	Mathematical Model to Predict Heat Flow in Underwater Friction Stud Welding. Advanced Materials Research, 2014, 984-985, 596-599.	0.3	13
35	Numerical analysis of thermal drilling technique on titanium sheet metal. AIP Conference Proceedings, 2018, , .	0.4	13
36	Low-speed friction riveting: a new method for joining polymer/metal hybrid structures for aerospace applications. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	13

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37	Assesment of influncing factors on mechanical and electrical properties of Al/Cu joints. AIP Conference Proceedings, 2018, , .	0.4	11
38	Joining of AA 6061/TiAl <sub>4</sub> with zinc interlayer using friction welding process. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	11
39	Finite element based simulation on friction stud welding of metal matrix composites to steel. AIP Conference Proceedings, 2016, , .	0.4	10
40	Characterization of high-carbon high-chromium tool steel/low-carbon steel friction-welded joints for industrial tooling applications. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	10
41	Numerical simulation of friction welding of aluminium/titanium joints. Materials Research Express, 2019, 6, 026573.	1.6	10
42	Numerical simulation on influence of bonding temperature in transient liquid phase bonding. AIP Conference Proceedings, 2016, , .	0.4	9
43	Influence of heat treatment on friction-welded joints made of high-carbon high-chromium tool steel/low-carbon steel for tooling applications. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	9
44	Numerical investigation on friction welding of alumina / AA 6063 T6 joints. AIP Conference Proceedings, 2016, , .	0.4	8
45	Simulation of friction stir drilling process. AIP Conference Proceedings, 2018, , .	0.4	8
46	Investigation on friction stud welded AMC/AISI 304 steel joints with ceramic intercoating. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	8
47	Numerical modeling of friction welding of bi-metal joints for electrical applications. AIP Conference Proceedings, 2018, , .	0.4	7
48	Friction riveting for joining of wide range of dissimilar materials. AIP Conference Proceedings, 2019, , .	0.4	7
49	A review on mechanical and tribological properties of sintered copper matrix composites. AIP Conference Proceedings, 2019, , .	0.4	7
50	Investigating the parametric effects on wire electric discharge machining performance in processing AA1050-5 wt.% SiC composite with zinc-coated brass wire. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	1.6	7
51	Experimental study on joining of AA6063 and AISI 1040 steel. AIP Conference Proceedings, 2018, , .	0.4	6
52	Reinforcement in aluminium metal matrix composites. AIP Conference Proceedings, 2019, , .	0.4	6
53	Review of Research on Friction Riveting of Polymer/Metal Light Weight Multi-material Structures. Transactions of the Indian Institute of Metals, 2021, 74, 2541-2553.	1.5	6
54	Random decision forest based sustainable green machining using Citrullus lanatus extract as bio-cutting fluid. Journal of Manufacturing Processes, 2021, 68, 1814-1823.	5.9	6

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55	Simulation on friction drilling process of Cu2C. Materials Today: Proceedings, 2018, 5, 27161-27165.	1.8	5
56	Corrosion behaviour of fibre metal laminates and control by inhibitors. AIP Conference Proceedings, 2019, , .	0.4	5
57	Finite element approach in thermal modelling of friction stud welding. AIP Conference Proceedings, 2019, , .	0.4	5
58	Regression Modelling of Joining Aluminium Studs to Steel with AA 1100 Interlayer. Experimental Techniques, 2019, 43, 491-500.	1.5	5
59	Synthesis, properties, and characterization of carbon nanotube-reinforced metal matrix composites. , 2019, , 805-830.		4
60	Influence of rotational speed on mechanical features of thermally drilled holes in dual-phase steel. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 1614-1625.	2.4	4
61	Concept of self-repair and efficiency measurement in polymer matrix composites. , 2020, , 375-391.		4
62	Simulation of thermo-mechanical behaviour of friction drilling process. International Journal of Computational Materials Science and Surface Engineering, 2020, 9, 70.	0.2	4
63	Mechanical behavioural testing of fibre metal laminate composites. AIP Conference Proceedings, 2020, , .	0.4	4
64	Electromagnetic Riveting Technique of Joining Metals to Polymer Composites in Hybrid Multi-material Aerospace Structures. Transactions of the Indian Institute of Metals, 2021, 74, 2909-2924.	1.5	4
65	Thermal behavior analysis and mechanical characterization of friction stud welded AISI 304/AA6063 joints. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	1.6	4
66	Green Corrosion Inhibition on Carbon-Fibre-Reinforced Aluminium Laminate in NaCl Using Aerva Lanata Flower Extract. Polymers, 2022, 14, 1700.	4.5	4
67	Controller for friction stud welding machine. , 2013, , .		3
68	Simulation on friction taper plug welding of AA6063-20Gr metal matrix composite. AIP Conference Proceedings, 2016, , .	0.4	3
69	A survey on characterization of natural fibers. AIP Conference Proceedings, 2019, , .	0.4	3
70	Corrosion issues in metal matrix composites & Bi-metals. , 2019, , .		3
71	Self-healing fiber-reinforced epoxy composites. , 2020, , 393-404.		3
72	INFLUENCE OF GEOMETRICAL DESIGN ON FRICTION-WELDED AA6061/Ti6Al4V JOINTS FOR WING SPARS OF AIRCRAFT STRUCTURES. Surface Review and Letters, 2022, 29, .	1.1	3

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73	Surface Investigation of Physella Acuta Snail Shell Particle Reinforced Aluminium Matrix Composites. Coatings, 2022, 12, 794.	2.6	3
74	Biodegradable cutting fluids for manufacturing processes. AIP Conference Proceedings, 2020, , .	0.4	2
75	Risk assessment of corrosion inhibitors of magnesium and its alloys. AIP Conference Proceedings, 2020, , .	0.4	2
76	Simulation on graphite to copper joints in nuclear reactor applications by transient liquid phase bonding. Materials Today: Proceedings, 2021, 47, 7095-7098.	1.8	2
77	Mechanical and microstructural characterization of hybrid fiber metal laminates obtained through sustainable manufacturing. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	3.8	2
78	INVESTIGATION ON THE THERMAL BEHAVIOR OF FRICTION STUD WELDING OF DISSIMILAR ALUMINUM/MILD STEEL JOINTS. Surface Review and Letters, 2022, 29, .	1.1	2
79	Portable electronic braille devices “ An overview. AIP Conference Proceedings, 2019, , .	0.4	1
80	Mathematical prediction of dental removal rate in drill-less dentistry. AIP Conference Proceedings, 2019, , .	0.4	1
81	Review on recent developments in braille system. AIP Conference Proceedings, 2020, , .	0.4	1
82	Eco-friendly glycol based nano cutting fluids for manufacturing sectors. AIP Conference Proceedings, 2020, , .	0.4	1
83	Scheming of mechanical properties of molybdic acid added sisal glass fiber reinforced epoxy composite. Materials Today: Proceedings, 2021, 47, 7054-7059.	1.8	1
84	Finite Element Model Based Warning Device to Prevent Electrical Hazard. Procedia Engineering, 2012, 38, 2846-2857.	1.2	0
85	Analytical modelling of temperature profile in friction studwelding of dissimilar metals. , 2013, , .		0
86	Design and development of Hoeken’s structural dynamic linkage based agro-tiller machine. AIP Conference Proceedings, 2018, , .	0.4	0
87	Design and development of flapping wing micro air vehicle. AIP Conference Proceedings, 2018, , .	0.4	0
88	Self-repairing fiber polymer composites: mechanisms and properties. , 2020, , 71-85.		0
89	Mechanical behavior of self-healing polyethylenimine/polyacrylic acid multilevel polymer films. , 2020, , 405-414.		0
90	Simulation of Transient Liquid Phase Bonding Process and the Influence of Interlayer Thickness. IOP Conference Series: Materials Science and Engineering, 2020, 923, 012006.	0.6	0

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91	Process Capability & Fascinating applications of Friction Stud welding. IOP Conference Series: Materials Science and Engineering, 2020, 923, 012029.	0.6	0
92	Mathematical prediction of caries removal rate in drill-less dentistry. AIP Conference Proceedings, 2020, , .	0.4	0
93	Influence of processing conditions and issues in Machining of aluminum metal matrix composites. Materials Today: Proceedings, 2021, 47, 7035-7035.	1.8	0