

Panneerselvam Kavan

List of Publications by Year in descending order

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62
papers

862
citations

623699

14
h-index

526264

27
g-index

64
all docs

64
docs citations

64
times ranked

698
citing authors

#	ARTICLE	IF	CITATIONS
1	A review study in ultrasonic-welding of similar and dissimilar thermoplastic polymers and its composites. <i>Materials Today: Proceedings</i> , 2022, 56, 3294-3300.	1.8	13
2	Development and investigation of antibacterial and antioxidant characteristics of poly lactic acid films blended with neem oil and curcumin. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51891.	2.6	11
3	Influence of polybenzimidazole nanoparticle on the thermo-mechanical characteristics of high density polyethylene composite. <i>Physica Scripta</i> , 2022, 97, 035706.	2.5	4
4	Welding analysis and optimization of ultra-sonic welding in HDPE-5%PBI composite by CODAS decision-making approach. <i>Physica Scripta</i> , 2022, 97, 095703.	2.5	3
5	Effect of particulate fillers on mechanical, metallurgical and abrasive behavior of tungsten reinforced HDPE composites: A Taguchi approach. <i>Materials Today: Proceedings</i> , 2021, 39, 1228-1234.	1.8	3
6	Experimental investigation and multi response optimization of turning process parameters for Inconel 718 using TOPSIS approach. <i>Materials Today: Proceedings</i> , 2021, 45, 467-472.	1.8	15
7	An investigation on antibacterial filler property of silver nanoparticles generated from Walnut shell powder by insitu process. <i>Materials Today: Proceedings</i> , 2021, 39, 368-372.	1.8	8
8	Joining of PEEK plates by friction stir welding process. <i>Materials Today: Proceedings</i> , 2021, 39, 1635-1639.	1.8	6
9	Surface modification of tungsten fillers for application in polymer matrix composites. <i>Materials Today: Proceedings</i> , 2021, 45, 7930-7933.	1.8	6
10	Manufacturing and Characterization of Tungsten Particulate-Reinforced AW106 Epoxy Resin Composites. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 817-825.	1.5	3
11	Investigations on Joining of High Density Poly Ethylene Sheets using Resistance Welding Technique. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1132, 012001.	0.6	0
12	A comparative assessment in sequential $\frac{1}{4}$ -drilling of Hastelloy-X using laser in combination with $\frac{1}{4}$ -EDM and $\frac{1}{4}$ -ECM. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	1.6	7
13	Tribological studies of glass filled Nylon 6 composites in self-mated contacts and against AISI D2 steel disc. <i>Materials Today: Proceedings</i> , 2021, 44, 1939-1943.	1.8	2
14	Joining of PEEK plates by friction vibration joining process. <i>Materials Today: Proceedings</i> , 2021, , .	1.8	1
15	A NOVEL STUDY ON SURFACE MODIFICATION OF PALMYRA FIBERS FOR ENHANCING MECHANICAL AND THERMAL PROPERTIES. <i>Surface Review and Letters</i> , 2020, 27, 1950104.	1.1	4
16	PROCESS PARAMETERS OPTIMIZATION FOR FRICTION VIBRATION JOINING OF POLYPROPYLENE/SPHERI GLASS COMPOSITES USING TOPSIS. <i>Surface Review and Letters</i> , 2020, 27, 1950167.	1.1	4
17	Mechanical and Thermal Characterization of Camphor Soot Embedded Coir Fiber Reinforced Nylon Composites. <i>Fibers and Polymers</i> , 2020, 21, 2569-2578.	2.1	7
18	Investigation on the influence of tungsten particulate in mechanical and thermal properties of HD50MA180 high density polyethylene composites. <i>Materials Research Express</i> , 2020, 7, 045306.	1.6	4

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19	Experimental investigation and optimization of abrasive wear characteristics of polypropylene nanocomposites. <i>Materials Research Express</i> , 2020, 7, 015339.	1.6	0
20	Microstructure & mechanical properties of dissimilar material joints between T91 martensitic & S304H austenitic steels using different filler wires. <i>Materials Today: Proceedings</i> , 2020, 46, 9397-9397.	1.8	4
21	PLA-Based Material Design and Investigation of Its Properties by FDM. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2020, , 229-241.	0.6	4
22	Investigation on Thermal and Tribological Properties of Polypropylene/Spheri Glass 3000 Composites Processed by Melt Intercalation Method. <i>Silicon</i> , 2019, 11, 2885-2894.	3.3	2
23	Microstructure Evaluation on Friction Stir Welding of Cryorolled 2219 Aluminum Alloy. <i>Journal of Testing and Evaluation</i> , 2019, 47, 2827-2846.	0.7	0
24	Effects of various tool pin profiles on mechanical and metallurgical properties of friction stir welded joints of cryorolled AA2219 aluminium alloy. <i>Metallurgical Research and Technology</i> , 2018, 115, 212.	0.7	3
25	Multi-performance Optimization of Drilling Carbon Fiber Reinforced Polymer Using Taguchi: Membership Function. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 1615-1627.	1.5	6
26	Mechanical Properties of Polypropylene Nanocomposites: Dispersion Studies and Modelling. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 225-230.	1.5	7
27	CORROSION PROPERTIES OF CRYOROLLED AA2219 FRICTION STIR WELDED JOINTS USING DIFFERENT TOOL PIN PROFILES. <i>Surface Review and Letters</i> , 2018, 25, 1850071.	1.1	6
28	Influences of metastable ϵ , ϵ^2 and stable η intermetallics formed during cryorolling and friction stir welding process on AA2219. <i>Journal of Alloys and Compounds</i> , 2018, 732, 624-629.	5.5	13
29	Abrasive wear of polypropylene/Cloisite 30B/Elvaloy AC 3427 nanocomposites. <i>Journal of Composite Materials</i> , 2018, 52, 1833-1843.	2.4	21
30	Investigation on the effects of Cloisite 30B and copolymer (ethylene and butyl acrylate) reinforcement with polypropylene thermoplastic by melt intercalation method. <i>Journal of Thermoplastic Composite Materials</i> , 2018, 31, 1371-1392.	4.2	4
31	Parameter optimization of friction stir welding of cryorolled AA2219 alloy using artificial neural network modeling with genetic algorithm. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 3117-3129.	3.0	61
32	A Novel Study on Thermal Stability of Camphor Soot Reinforced Coir Fibers. <i>Fibers and Polymers</i> , 2018, 19, 1567-1575.	2.1	8
33	Experimental investigation of resistance welded polypropylene nanocomposite joints. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 2350-2363.	2.6	8
34	Mechanical and Thermal Behaviour of Polypropylene/Cloisite 30B/Elvaloy AC 3427 Nanocomposites Processed by Melt Intercalation Method. <i>Transactions of the Indian Institute of Metals</i> , 2017, 70, 1131-1138.	1.5	9
35	EXPERIMENTAL INVESTIGATION ON FRICTION STIR WELDING OF CRYOROLLED AA2219 ALUMINUM ALLOY JOINTS. <i>Surface Review and Letters</i> , 2017, 24, 1750001.	1.1	8
36	Investigation and optimization of machining parameters in drilling of carbon fiber reinforced polymer (CFRP) composites. <i>Pigment and Resin Technology</i> , 2017, 46, 21-30.	0.9	15

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37	Effects of mechanical, metallurgical and corrosion properties of cryorolled AA2219-T87 aluminium alloy. <i>Materials Today: Proceedings</i> , 2017, 4, 285-293.	1.8	6
38	Manufacturing Issues of Polypropylene Nanocomposite by Melt Intercalation Process. <i>Materials Today: Proceedings</i> , 2017, 4, 4032-4041.	1.8	7
39	Grey Relational Analysis Based Optimization Of Multiple Responses in Drilling Of Carbon Fiber-Epoxy Composites. <i>Materials Today: Proceedings</i> , 2017, 4, 2861-2870.	1.8	4
40	Optimization of Drilling Process Parameters Via Taguchi, TOPSIS and RSA Techniques. <i>Archives of Metallurgy and Materials</i> , 2017, 62, 1803-1812.	0.6	6
41	Study on Tensile Strength, Impact Strength and Analytical Model for Heat Generation in Friction Vibration Joining of Polymeric Nanocomposite Joints. <i>Polymer Engineering and Science</i> , 2017, 57, 495-504.	3.1	26
42	Optimization of Machining Process Parameters in Drilling of CFRP Using Multi-Objective Taguchi Technique, TOPSIS and RSA Techniques. <i>Polymers and Polymer Composites</i> , 2017, 25, 185-192.	1.9	27
43	Optimization of Process Parameters in Micro-Drilling of Carbon Fiber Reinforced Polymer (Cfrp) Using Taguchi and Grey Relational Analysis. <i>Polymers and Polymer Composites</i> , 2016, 24, 499-506.	1.9	11
44	Multi-response Optimization in Drilling of Carbon Fiber Reinforced Polymer Using Artificial Neural Network Correlated to Meta-heuristics Algorithm. <i>Procedia Technology</i> , 2016, 25, 955-962.	1.1	4
45	Two-body Abrasive Wear Behavior of Nylon 6 and Glass Fiber Reinforced (GFR) Nylon 6 Composite. <i>Procedia Technology</i> , 2016, 25, 1129-1136.	1.1	44
46	Processing of Polypropylene/ Spheri Glass 3000 Nanocomposites by Melt Intercalation Method. <i>Procedia Technology</i> , 2016, 25, 1114-1121.	1.1	7
47	Machinability study of Carbon Fiber Reinforced Polymer in the longitudinal and transverse direction and optimization of process parameters using PSO&GSA. <i>Engineering Science and Technology, an International Journal</i> , 2016, 19, 1552-1563.	3.2	24
48	Modeling of tensile properties, dispersion studies, and hardness evaluation of Cloisite 30B in polypropylene with Elvaloy AC 3427 as compatibilizer. <i>Journal of Composite Materials</i> , 2016, 50, 3219-3227.	2.4	10
49	Parameters optimization in FSW of polypropylene based on RSM. <i>Multidiscipline Modeling in Materials and Structures</i> , 2015, 11, 32-42.	1.3	7
50	Machinability study of hybrid-polymer composite pipe using response surface methodology and genetic algorithm. <i>Journal of Sandwich Structures and Materials</i> , 2014, 16, 418-439.	3.5	9
51	Joining of Nylon 6 plate by friction stir welding process using threaded pin profile. <i>Materials & Design</i> , 2014, 53, 302-307.	5.1	115
52	Machining Parameter Optimization of Bidirectional CFRP Composite Pipe by Genetic Algorithm. <i>Materialpruefung/Materials Testing</i> , 2014, 56, 728-736.	2.2	7
53	EFFECTS AND DEFECTS OF THE POLYPROPYLENE PLATE FOR DIFFERENT PARAMETERS IN FRICTION STIR WELDING PROCESS. <i>International Journal of Research in Engineering and Technology</i> , 2013, 02, 143-152.	0.1	21
54	Investigation on Effect of Tool Forces and Joint Defects During FSW of Polypropylene Plate. <i>Procedia Engineering</i> , 2012, 38, 3927-3940.	1.2	31

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55	Optimization of End Milling Parameters for Glass Fiber Reinforced Plastic (GFRP) Using Grey Relational Analysis. <i>Procedia Engineering</i> , 2012, 38, 3962-3968.	1.2	12
56	Study on resistance welding of glass fiber reinforced thermoplastic composites. <i>Materials & Design</i> , 2012, 41, 453-459.	5.1	39
57	Optimization of laser welding process parameters for super austenitic stainless steel using artificial neural networks and genetic algorithm. <i>Materials & Design</i> , 2012, 36, 490-498.	5.1	106
58	Optimal design for laser beam butt welding process parameter using artificial neural networks and genetic algorithm for super austenitic stainless steel. <i>Optics and Laser Technology</i> , 2012, 44, 1905-1914.	4.6	37
59	Hybrid of ANN with genetic algorithm for optimization of frictional vibration joining process of plastics. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 42, 669-677.	3.0	22
60	An Innovative Approach for Optimization of Frictional Vibration Joining Process. <i>Journal for Manufacturing Science and Production</i> , 2008, 9, 203-216.	0.1	0
61	H-8 JOINING OF THERMOPLASTICS AND THERMOPLASTIC COMPOSITES(Session: Welding / Joining). <i>The Proceedings of the Asian Symposium on Materials and Processing</i> , 2006, 2006, 144.	0.0	0
62	Entropy-based Taguchiâ€“Grey relational analysis for multi-output optimization of coating parameters in MoS ₂ -coated sugar palm fiber and its characterization. <i>Journal of Industrial Textiles</i> , 0, , 152808372110737.	2.4	0