

Panneerselvam Kavan

List of Publications by Year in descending order

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62
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862
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citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Study on resistance welding of glass fiber reinforced thermoplastic composites. <i>Materials & Design</i> , 2012, 41, 453-459. | 5.1 | 39 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Machinability study of Carbon Fiber Reinforced Polymer in the longitudinal and transverse direction and optimization of process parameters using PSO and GSA. <i>Engineering Science and Technology, an International Journal</i> , 2016, 19, 1552-1563. | 3.2 | 24 |
| 11 | 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 |
| 12 | Abrasive wear of polypropylene/Cloisite 30B/Elvaloy AC 3427 nanocomposites. <i>Journal of Composite Materials</i> , 2018, 52, 1833-1843. | 2.4 | 21 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Influences of metastable δ , δ^2 and stable δ 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 |
| 17 | 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 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | EXPERIMENTAL INVESTIGATION ON FRICTION STIR WELDING OF CRYOROLLED AA2219 ALUMINUM ALLOY JOINTS. <i>Surface Review and Letters</i> , 2017, 24, 1750001. | 1.1 | 8 |
| 25 | A Novel Study on Thermal Stability of Camphor Soot Reinforced Coir Fibers. <i>Fibers and Polymers</i> , 2018, 19, 1567-1575. | 2.1 | 8 |
| 26 | Experimental investigation of resistance welded polypropylene nanocomposite joints. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 2350-2363. | 2.6 | 8 |
| 27 | 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 |
| 28 | Parameters optimization in FSW of polypropylene based on RSM. <i>Multidiscipline Modeling in Materials and Structures</i> , 2015, 11, 32-42. | 1.3 | 7 |
| 29 | Processing of Polypropylene/ Spheri Glass 3000 Nanocomposites by Melt Intercalation Method. <i>Procedia Technology</i> , 2016, 25, 1114-1121. | 1.1 | 7 |
| 30 | Manufacturing Issues of Polypropylene Nanocomposite by Melt Intercalation Process. <i>Materials Today: Proceedings</i> , 2017, 4, 4032-4041. | 1.8 | 7 |
| 31 | 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 |
| 32 | 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 |
| 33 | A comparative assessment in sequential $\hat{1}/4$ -drilling of Hastelloy-X using laser in combination with $\hat{1}/4$ -EDM and $\hat{1}/4$ -ECM. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1. | 1.6 | 7 |
| 34 | Machining Parameter Optimization of Bidirectional CFRP Composite Pipe by Genetic Algorithm. <i>Materialpruefung/Materials Testing</i> , 2014, 56, 728-736. | 2.2 | 7 |
| 35 | 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 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | Multi-performance Optimization of Drilling Carbon Fiber Reinforced Polymer Using Taguchi: Membership Function. Transactions of the Indian Institute of Metals, 2018, 71, 1615-1627. | 1.5 | 6 |
| 38 | CORROSION PROPERTIES OF CRYOROLLED AA2219 FRICTION STIR WELDED JOINTS USING DIFFERENT TOOL PIN PROFILES. Surface Review and Letters, 2018, 25, 1850071. | 1.1 | 6 |
| 39 | Joining of PEEK plates by friction stir welding process. Materials Today: Proceedings, 2021, 39, 1635-1639. | 1.8 | 6 |
| 40 | Surface modification of tungsten fillers for application in polymer matrix composites. Materials Today: Proceedings, 2021, 45, 7930-7933. | 1.8 | 6 |
| 41 | Multi-response Optimization in Drilling of Carbon Fiber Reinforced Polymer Using Artificial Neural Network Correlated to Meta-heuristics Algorithm. Procedia Technology, 2016, 25, 955-962. | 1.1 | 4 |
| 42 | Grey Relational Analysis Based Optimization Of Multiple Responses in Drilling Of Carbon Fiber-Epoxy Composites. Materials Today: Proceedings, 2017, 4, 2861-2870. | 1.8 | 4 |
| 43 | Investigation on the effects of Cloisite 30B and copolymer (ethylene and butyl acrylate) reinforcement with polypropylene thermoplastic by melt intercalation method. Journal of Thermoplastic Composite Materials, 2018, 31, 1371-1392. | 4.2 | 4 |
| 44 | A NOVEL STUDY ON SURFACE MODIFICATION OF PALMYRA FIBERS FOR ENHANCING MECHANICAL AND THERMAL PROPERTIES. Surface Review and Letters, 2020, 27, 1950104. | 1.1 | 4 |
| 45 | PROCESS PARAMETERS OPTIMIZATION FOR FRICTION VIBRATION JOINING OF POLYPROPYLENE/SPHERI GLASS COMPOSITES USING TOPSIS. Surface Review and Letters, 2020, 27, 1950167. | 1.1 | 4 |
| 46 | Investigation on the influence of tungsten particulate in mechanical and thermal properties of HD50MA180 high density polyethylene composites. Materials Research Express, 2020, 7, 045306. | 1.6 | 4 |
| 47 | Microstructure & mechanical properties of dissimilar material joints between T91 martensitic & S304H austenitic steels using different filler wires. Materials Today: Proceedings, 2020, 46, 9397-9397. | 1.8 | 4 |
| 48 | PLA-Based Material Design and Investigation of Its Properties by FDM. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 229-241. | 0.6 | 4 |
| 49 | Influence of polybenzimidazole nanoparticle on the thermo-mechanical characteristics of high density polyethylene composite. Physica Scripta, 2022, 97, 035706. | 2.5 | 4 |
| 50 | Effects of various tool pin profiles on mechanical and metallurgical properties of friction stir welded joints of cryorolled AA2219 aluminium alloy. Metallurgical Research and Technology, 2018, 115, 212. | 0.7 | 3 |
| 51 | Effect of particulate fillers on mechanical, metallurgical and abrasive behavior of tungsten reinforced HDPE composites: A Taguchi approach. Materials Today: Proceedings, 2021, 39, 1228-1234. | 1.8 | 3 |
| 52 | Manufacturing and Characterization of Tungsten Particulate-Reinforced AW106 Epoxy Resin Composites. Transactions of the Indian Institute of Metals, 2021, 74, 817-825. | 1.5 | 3 |
| 53 | Welding analysis and optimization of ultra-sonic welding in HDPE-5%PBI composite by CODAS decision-making approach. Physica Scripta, 2022, 97, 095703. | 2.5 | 3 |
| 54 | Investigation on Thermal and Tribological Properties of Polypropylene/Spheri Glass 3000 Composites Processed by Melt Intercalation Method. Silicon, 2019, 11, 2885-2894. | 3.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Tribological studies of glass filled Nylon 6 composites in self-mated contacts and against AISI D2 steel disc. Materials Today: Proceedings, 2021, 44, 1939-1943. | 1.8 | 2 |
| 56 | Joining of PEEK plates by friction vibration joining process. Materials Today: Proceedings, 2021, , . | 1.8 | 1 |
| 57 | An Innovative Approach for Optimization of Frictional Vibration Joining Process. Journal for Manufacturing Science and Production, 2008, 9, 203-216. | 0.1 | 0 |
| 58 | Experimental investigation and optimization of abrasive wear characteristics of polypropylene nanocomposites. Materials Research Express, 2020, 7, 015339. | 1.6 | 0 |
| 59 | Investigations on Joining of High Density Poly Ethylene Sheets using Resistance Welding Technique. IOP Conference Series: Materials Science and Engineering, 2021, 1132, 012001. | 0.6 | 0 |
| 60 | H-8 JOINING OF THERMOPLASTICS AND THERMOPLASTIC COMPOSITES(Session: Welding / Joining). The Proceedings of the Asian Symposium on Materials and Processing, 2006, 2006, 144. | 0.0 | 0 |
| 61 | Microstructure Evaluation on Friction Stir Welding of Cryorolled 2219 Aluminum Alloy. Journal of Testing and Evaluation, 2019, 47, 2827-2846. | 0.7 | 0 |
| 62 | Entropy-based Taguchi-Grey relational analysis for multi-output optimization of coating parameters in MoS ₂ -coated sugar palm fiber and its characterization. Journal of Industrial Textiles, 0, , 152808372110737. | 2.4 | 0 |