| Sl. No. | Name with full address | Area of specialization |
|---|---|---|
| | **Panel Member from Affiliated College/Institution** | |
| 1. | Name : **Dr. K. Palanikumar**<br>Designation : Professor & Principal<br>Department : Mechanical Engineering<br>Address : Sri Samram Institute of Technology, Chennai, Tamil Nadu 600044<br>Mobile : 9677053338<br>E-mail : principal@sairamit.edu.in | Composites Materials, Processing, Manufacturing, optimization |

| | |
|---|---|
| | **List of Publications for last 5 years** |
| 1 | Siva, R., T. N. Valarmathi, and K. Palanikumar. "Effects of magnesium carbonate concentration and lignin presence on properties of natural cellulosic Cissus quadrangularis fiber composites." International Journal of Biological Macromolecules 164 (2020): 3611-3620. |
| 2. | K Manikandan, K Palanikumar, " Machinability evaluation and comparison of Incoloy 825, Inconel 603 XL, Monel K400 and Inconel 600 super alloys in wire electrical discharge machining," Journal of Materials Research and Technology 9(2020): 12260-12272 |
| 3 | Kathirvel, M., K. Palani Kumar, and P. M. Diaz. "Experimental analysis on surface roughness in turning hybrid metal matrix (6061Al+ SiC+ Gr) composites." Mechanics and Mechanical Engineering 22.1 (2020): 341-356. |
| 4 | S. Suresh, Natarajan Elango, K. Venkatesan, Wei Hong Lim, K. Palanikumar, S. Rajesh, Sustainable friction stir spot welding of 6061-T6 aluminium alloy using improved non-dominated sorting teaching learning algorithm,Journal of Materials Research and Technology, Volume 9, Issue 5,2020,Pages 11650-11674, |
| 5. | S.T. Selvamani, S. Velmurugan, V. Balasubramanian, K. Palanikumar,<br>Effects of heat distribution during cold metal transfer arc welding on galvanized steel using volumetric heat source model,Journal of Materials Research and Technology,Volume 9, Issue 5,2020,Pages 10097-10109 |
| 6. | Mudhukrishnan, M., P. Hariharan, and K. Palanikumar. "Measurement and analysis of thrust force and delamination in drilling glass fiber reinforced polypropylene composites using different drills." Measurement 149 (2020): 106973. |
| 7. | Eaben Rajkumar, S., et al. "Subsurface integrity studies on the drilling of Al/B4C/mica hybrid metal matrix composites." Materials and Manufacturing Processes 35.1 (2020): 52-60. |
| 8. | Valarmathi, T. N., K. Palanikumar. "Investigation of the effect of process parameters on surface roughness in drilling of particleboard composite panels using adaptive neuro fuzzy inference system." Materials and Manufacturing Processes 35.4 (2020): 469-477. |
| 9. | Natarajan, E., Razif, M. R. M., Faudzi, A. A. M., & Palanikumar, K. (2020). Evaluation of a Suitable Material for Soft Actuator Through Experiments and FE Simulations. International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME), 10(2), 64-76. |
| 10. | Kalyan Chakaravarthy, V. V., Rajmohan, T., Vijayan, D., Palanikumar, K., & Latha, B. (2020). Sustainable drilling performance optimization for Nano SiC reinforced Al matrix composites. Materials and Manufacturing Processes, 1-9. |
| 11. | Palanikumar, K., S. Eaben Rajkumar, and K. Pitchandi. "Influence of primary B 4 C particles and secondary mica particles on the wear performance of Al6061/B 4 C/mica hybrid composites." Journal of Bio-and Tribo-Corrosion 5.3 (2019): 77. |
| 12 | Palanikumar, Kayaroganam, and Vijayakumar Subbiah. "Bio caryota fiber reinforced polymer composites: mechanical properties and vibration behavior analysis." Journal of Bionic Engineering 16.3 (2019): 480-491. |
| 13 | Tamang, S. K., Chandrasekaran, M., Palanikumar, K., & Arunachalam, R. M. (2019). Machining performance optimisation of MQL-assisted turning of Inconel-825 superalloy using |

| | |
|---|---|
| | GA for industrial applications. International Journal of Machining and Machinability of Materials, 21(1-2), 43-65. |
| 14 | P. Ramu, C.V. Jaya Kumar, K. Palanikumar, Mechanical Characteristics and Terminological Behavior Study on Natural Fiber Nano reinforced Polymer Composite – A Review, Materials Today: Proceedings, Volume 16, Part 2, 2019, Pages 1287-1296 |
| 15. | M Vigneshwar,STSelvamani,PHariprasath,K.PalaniKumar,Analysis of Mechanical, Metallurgical and Fatigue Behavior of Friction Welded AA6061-AA2024 Dissimilar Aluminum Alloys in Optimized Condition, MaterialsToday:Proceedings (2018) 5(2),7853-7863. |
| 16 | ST Selvamani,M Vigneshwar,K.PalaniKumar,D Jayaperumal, The corrosion Behavior of fully deformed zone of friction welded low chromium plain carbon steel Joints in optimized condition,Journal of the Brazilian Society of Mechanical Sciences and Engineering (2018) |
| 17 | K Prabhakar, S Debnath,R Ganesan,K.PalaniKumar,A review of mechanical and Tribological behaviour of polymer composite materials,IOP Conference Series: Materials Science and Engineering (2018) 344(1),012015 |
| 18 | G Anand,N Alagumurthi,R Elansezhian,K.PalaniKumar,.Investigation of drilling Parameters on hybrid polymer composites using grey relational analysis,regression, fuzzylogic,and ANN models,Journal of the Brazilian Society of Mechanical Sciences and Engineering (2018) |
| 19 | NRR Anbusagar, K. PalaniKumar, A Ponshanmugakumar, Preparation and properties of nanopolymer advanced composites: A review, Polymer-based Nanocomposites for Energy and Environmental Applications, 27-73 (2018) |
| 20 | M. Ramesh, K. PalaniKumar, K. Hemachandra Reddy: Plant fibre based bio-composites: Sustainable and renewable green materials. Renewable and Sustainable Energy Reviews 11/2017; 79:558-584., DOI:10.1016/j.rser.2017.05.094 (2017) |
| 21 | K R Bharat, S Abhishek, K Palanikumar: Mechanical Property Analysis on Sandwich Structured Hybrid Composite Made from Natural Fibre, Glass Fibre and Ceramic Fibre Wool Reinforced with Epoxy Resin. 06/2017; 205(1):012015., DOI:10.1088/1757-899X/205/1/012015 (2017) |
| 22 | G. Ramya Devi, K. PalaniKumar: Evaluation of Thrust force in Drilling Woven roving Glass fibre reinforced Aluminium Sandwich laminates with TiAlN coated drill using Taguchi analysis. 05/2017; 197(1):012055., DOI:10.1088/1757- 899X/197/1/012055, IOP Materials science & Engineering 197 (1), 012-055. (2017) |
| 23 | N R R. Anbusagar, K. PalaniKumar: Nanoclay Addition and Core Materials Effect on Impact and Damage Tolerance Capability of Glass Fiber Skin Sandwich Laminates. Silicon 04/2017;, DOI:10.1007/s12633-016-9529-2, 9(48) (2017) |
| 24 | ST Selvamani, S Premkumar, M Vigneshwar, P Hariprasath, K Palanikumar, Influence of carbon nano tubes on mechanical, metallurgical and tribological behavior of magnesium nanocomposites, Journal of Magnesium and Alloys, doi.org/10.1016/j.jma.2017.08.006 (2017) |
| 25 | M. Mudhukrishnan, P. Hariharan, K. PalaniKumar, B. Latha: Tool Materials Influence on Surface Roughness and Oversize in Machining Glass Fiber Reinforced Polypropylene (GFR-PP) Composites. Materials and Manufacturing Processes 08/2016;, DOI:10.1080/10426914.2016.1221098, 32(9), 988-977 (2017) |
| 26 | T. Rajmohan, S. D. Sathishkumar, K. PalaniKumar: Effect of Nano Particle Filled Lubricant in Turning of AISI 316 L Stainless Steel (SS). Particulate Science And Technology 02/2016;, DOI:10.1080/02726351.2016.1146812, 35(2) ,201-208. (2017) |

| | |
|---|---|
| 27 | N. R. R. Anbusagar, K. PalaniKumar: Dynamic Analysis of OMMT Nanoparticle Reinforced Polyester Resin GFR-PS Foam Sandwich Laminates. Indian Journal of Science and Technology 02/2017; 9(48)., DOI:10.17485/ijst/2016/v9i48/101985. (2016) |
| 28 | K. PalaniKumar, T. Srinivasan, Ashwin Sailesh, K. Rajagopal: Strength Validation and Morphological studies of Glass Fiber Reinforced with Polypropylene Matrix (GFR/PP) Composites. 12/2016;, DOI:10.12783/dteees/seeie2016/4659 (2016) |
| 29 | K. PalaniKumar, M. Ramesh, K. Hemachandra Reddy: Experimental Investigation on the Mechanical Properties of Green Hybrid Sisal and Glass Fiber Reinforced Polymer Composites. Journal of Natural Fibers 05/2016; 13(3):321-331., DOI:10.1080/15440478.2015.1029192 (2016) |
| 30 | M. Ramesh, K. PalaniKumar, K. Hemachandra Reddy: Evaluation of Mechanical and Interfacial Properties of Sisal/Jute/Glass Hybrid Fiber Reinforced Polymer Composites. Transactions of the Indian Institute of Metals 03/2016; 69(10)., DOI:10.1007/s12666-016-0844-5 (2016) |
| 31 | S. Dhandapani, T. Rajmohan, K. PalaniKumar, Charan Mugunthan: Preparation and Characterization of Hybrid Aluminum Matrix Composites Reinforced with MWCNT Using Powder Metallurgy Process. 11/2015; 813-814:620-624., DOI:10.4028/www.scientific.net/AMM.813-814.620 (2016) |
| 32 | Manickam Ramesh, Kayaroganam Palanikumar, Konireddy Hemachandra Reddy: Influence of fiber orientation and fiber content on properties of sisal-jute-glass fiber-reinforced polyester composites. Journal of Applied Polymer Science 10/2015; 133(6)., DOI:10.1002/app.42968 (2016) |
| 33 | S. Vijaya Bhaskar, T. Rajmohan, K. PalaniKumar, B. Bharath Ganesh Kumar: Synthesis and Characterization of Multi Wall Carbon Nanotubes (MWCNT) Reinforced Sintered Magnesium Matrix Composites. 05/2015;, DOI:10.1007/s40033-015- 0074-8 (2016) |