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List of last 5 years publications:

- 1. Kavimani, V., Gopal, P. M., Sumesh, K. R., & Kumar, N. V. (2020). Multi Response Optimization on Machinability of SiC Waste Fillers Reinforced Polymer Matrix Composite Using Taguchi's Coupled Grey Relational Analysis. Silicon, 1-9. Impact Factor: 1.499
- 2. Gopal, P. M., & Kavimani, V. (2020). Influence of Silica Rich CRT and BN on Mechanical, Wear and Corrosion Characteristics of Copper-Surface Composite Processed Through Friction Stir Processing. Silicon, 1-10. Impact Factor: 1.499
- 3. Sumesh, K. R., V. Kavimani, G. Rajeshkumar, P. Ravikumar, and S. Indran. "An Investigation into the Mechanical and Wear Characteristics of Hybrid Composites: Influence of Different Types and Content of Biodegradable Reinforcements." Journal of Natural Fibers (2020): 1-13. Impact Factor: 2.6
- 4. Kavimani, V., K. Soorya Prakash, Titus Thankachan, and R. Udayakumar. "Synergistic improvement of epoxy derived polymer composites reinforced with Graphene Oxide (GO) plus Titanium di oxide (TiO2)." Composites Part B: Engineering (2020): 107911. Impact Factor: 7.635
- 5. Thankachan, Titus, K. Soorya Prakash, V. Kavimani, and S. R. Silambarasan. "Machine Learning and Statistical Approach to Predict and Analyze Wear Rates in Copper Surface Composites." Metals and Materials International (2020): 1-15. Impact Factor: 1.999
- 6. Hamsavathi, K., K. Soorya Prakash, and V. Kavimani. "Green high strength concrete containing recycled Cathode Ray Tube Panel Plastics (E-waste) as coarse aggregate in concrete beams for structural applications." Journal of Building Engineering (2020): 101192. Impact Factor: 3.379
- 7. Sumesh, K. R., K. Kanthavel, and V. Kavimani. "Peanut oil cake-derived cellulose fiber: Extraction, application of mechanical and thermal properties in pineapple/flax natural fiber composites." International Journal of Biological Macromolecules 150 (2020): 775-785. Impact Factor: 5.169
- 8. Sumesh, K. R., K. Kanthavel, and V. Kavimani. "Machinability of hybrid natural fiber reinforced composites with cellulose micro filler incorporation." Journal of Composite Materials (2020): 0021998320918020. Impact Factor: 1.972
- 9. V. Kavimani, K. Soorya Prakash, Titus Thankachan, "Influence of machining parameters on wire electrical discharge machining performance of reduced graphene oxide/magnesium composite and its surface integrity characteristics" Composites Part B: Engineering, ELSEVIER, Volume 169, Pages 508-521 (ISSN: 1359-8368), Impact Factor: 7.635
- 10. V. Kavimani, K. Soorya Prakash, Titus Thankachan "Experimental investigations on wear and friction behaviour of SiC@r-GO reinforced Mg matrix composites

- produced through solvent-based powder metallurgy", Composites Part B: Engineering, ELSEVIER Manuscript Published online 2019 (ISSN: 1359-8368), Impact Factor: 7.635
- 11. Thankachan, Titus, K. Soorya Prakash, and V. Kavimani. "Investigating the effects of hybrid reinforcement particles on the microstructural, mechanical and tribological properties of friction stir processed copper surface composites." Composites Part B: Engineering, ELSEVIER (2019). Impact Factor: 7.635
- 12. V. Kavimani, K. Soorya Prakash, Titus Thankachan "Multi-objective optimization in WEDM process of Graphene SiC- Magnesium composite through hybrid techniques" Measurement, ELSEVIER Manuscript Published online 2019 (ISSN: 0263-2241), Impact Factor: 3.364
- 13. V. Kavimani , K. Soorya Prakash, Titus Thankachan, "WEDM Parameter Optimization for Silicon@ r-GO/Magneisum Composite Using Taguchi Based GRA Coupled PCA",(2019) Silicon SPRINGER(ISSN: 1876-9918). Impact Factor: 1.499
- 14. V. Kavimani, K. Soorya Prakash "Tribo-Surface Characteristics and wear behaviour of SiC@r-GO/Mg composite worn under varying control factor" Silicon SPRINGER Manuscript Published online 2019, (ISSN: 1876-9918). Impact Factor: 1.499
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- 16. P. Senthil Kumar, V. Kavimani, K. Soorya PrakashV. Murali Krishna,G. Shanthos Kumar, "Effect of TiB2 on the Corrosion Resistance Behavior of In Situ Al Composites" Journal of Metal casting SPRINGER, Manuscript Published online 2019(ISSN: 2163-3193), Impact Factor: 1.409
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- 18. V. Kavimani, K. Soorya Prakash "Doping effect of SiC over graphene on dry sliding wear behaviour of Mg/SiC@r-GO MMCs and its surface characterization", Silicon SPRINGER, Manuscript Published online: 23 April 2018 (ISSN: 1876-9918). Impact Factor: 1.449
- 19. V. Kavimani, K. Soorya Prakash, Titus Thankachan "Investigation of graphene reinforced magnesium metal matrix composite processed through solvent based powder metallurgy route" Bulletin of Materials Science SPRINGER, Manuscript Accepted for Publication 2018 (ISSN: 0973-7669).Impact Factor: 1.499
- 20. P. Mohan Das Gandhi, K. Soorya Prakash, Kavimani V "Effect of r-GO/TiO2 hybrid composite as corrosion-protective coating on Magnesium in sulphur based electrolyte" Anti-Corrosion Methods and Materials EMERALD, Manuscript Accepted for Publication (ISSN: 0003-5599). Impact Factor: 0.73
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- 22. V. Kavimani, K. Soorya Prakash "Tribological behaviour predictions of r-GO reinforced Mg composite using ANN coupled Taguchi approach", Journal of Physics and Chemistry of Solids ELSEVIER, Vol. 110, Pages 409-419, November 2017. (ISSN: 0022-3697) Impact Factor: 3.442
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- 24. V. Kavimani , K. Soorya Prakash, Titus Thankachan "Surface characterization and specific wear rate prediction of r-GO/AZ31 composite under dry sliding wear condition", Surfaces and Interfaces— ELSEVIER, Volume 6, Pages 143–153, March 2017 (ISSN: 2468-0230).Impact Factor: 3.724
- 25. K. Soorya Prakash, P. M. Gopal, Kavimani V "Investigations on mechanical and machinability behaviour of aluminium / fly ash cenosphere / Gr hybrid composites processed through compocasting", Journal of Applied Research and Technology ELSEVIER , Accepted manuscript for Publication (ISSN: 1665-6423). cite score:0.81
- 26. Titus Thankachan, K. Soorya Prakash, V. Kavimani "Effect of friction stir processing and hybrid reinforcements on copper", Materials and Manufacturing Processes Taylor & Francis Manuscript Published online: 28 March 2018 (ISSN: 1042-6914 (Print) 1532-2475 (Online).Impact Factor: 3.35
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- 31. K. Soorya Prakash, P.M. Gopal, Anburose D, V. Kavimani, "Mechanical, Corrosion and Wear Characteristics of Powder Metallurgy Processed Ti-6Al-4V/ B4C Metal Matrix Composites", Ain Shams Engineering Journal ELSEVIER, Available online 14 November 2016 (ISSN: 2090- 4479). Impact Factor: 3.09