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### **Publications(2016-2020):**

- 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 (TiO<sub>2</sub>)." 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

15.T. Saravana kumar , **V. Kavimani**, K. Soorya Prakash, T. Selvaraju “Exploring the corrosion inhibition of Magnesium by coatings Formulated with nano CeO<sub>2</sub> and ZnO particles”, Progress in Organic Coatings – ELSEVIER , Manuscript Published online 2019. (ISSN: 0300-9440). Impact Factor: 4.469

16.P. Senthil Kumar, **V. Kavimani**, K. Soorya PrakashV. Murali Krishna,G. Shanthos Kumar, “Effect of TiB<sub>2</sub> 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

**17.V. Kavimani**, K. Soorya Prakash , R. Gunashri, P. Sathish “Corrosion protection behavior of r-GO/TiO<sub>2</sub> hybrid composite coating on Magnesium substrate in 3.5 wt. % NaCl”, Progress in Organic Coatings – ELSEVIER , Manuscript Published online December 2018. (ISSN: 0300-9440). Impact Factor: 4.469

**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

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**21.Kavimani V**, K. Soorya Prakash, R. Rajesh, Devaraj Rammasamy, Nivas Babu Selvaraj, Tao Yang, Balasubramanian Prabakaran, Sathiskumar Jothi “Electro deposition of r-GO/SiC nano-

composites on Magnesium and its Corrosion Behavior in Aqueous Electrolyte”, Applied Surface Science – ELSEVIER , Volume 424, Part 1, Pages 63-71, December 2017 (ISSN: 0169-4332). Impact Factor: 6.186

**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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30.K. Soorya Prakash, P. Balasundar, S. Nagaraja, P.M. Gopal, **V. Kavimani**, “Mechanical and Wear Behaviour of Mg–SiC–Gr Hybrid Composites”, Journal of Magnesium and Alloys - ELSEVIER, Volume 4, Issue 3, Pages 197–206, September 2016 (ISSN: 2213-9567). Impact Factor: 7.115

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