

## CENTRE FOR RESEARCH



ANNA UNIVERSITY, CHENNAI – 600 025

### LIST OF PUBLICATION OF DC MEMBER



Name of the Scholar : Vinitha.T

Programme : Ph.D. (PT)

Research Topic : Studies on Tribological Behavior of Bio-Based Polymer Composites

Name of the Supervisor: Dr. M. RAMESH / 2620070

### Member from other University / Institutions

Name of the member: Dr. Kavimani. V

S.No	Title	Year of Publication
1	<b>Kavimani, V.</b> , 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. <i>Silicon</i> , 1-9. Impact Factor: <b>1.499</b>	2020
2	Gopal, P. M., & <b>Kavimani, V.</b> (2020). Influence of Silica Rich CRT and BN on Mechanical, Wear and Corrosion Characteristics of Copper-Surface Composite Processed Through Friction Stir Processing. <i>Silicon</i> , 1-10. Impact Factor: <b>1.499</b>	2020
3	Sumesh, K. R., <b>V. Kavimani</b> , 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." <i>Journal of Natural Fibers</i> (2020): 1-13. Impact Factor: 2.6	2020
4	<b>Kavimani, V.</b> , 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> )." <b>Composites Part B: Engineering</b> (2020): 107911. Impact Factor: <b>7.635</b>	2020
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." <b>Metals and Materials International</b> (2020): 1-15. Impact Factor: <b>1.999</b>	2020
6	Hamsavathi, K., K. Soorya Prakash, and <b>V. Kavimani</b> . "Green high strength concrete containing recycled Cathode Ray Tube Panel Plastics (E-waste) as coarse aggregate in concrete beams for structural applications." <b>Journal of Building Engineering</b> (2020): 101192. Impact Factor: <b>3.379</b>	2020
7	Sumesh, K. R., K. Kanthavel, and <b>V. Kavimani</b> . "Peanut oil cake-derived cellulose fiber: Extraction, application of mechanical and thermal properties in pineapple/flax natural fiber composites." <b>International</b>	2020

	<b>Journal of Biological Macromolecules</b> 150 (2020): 775-785. Impact Factor: <b>5.169</b>	
8	Sumesh, K. R., K. Kanthavel, and <b>V. Kavimani</b> . "Machinability of hybrid natural fiber reinforced composites with cellulose micro filler incorporation." <b>Journal of Composite Materials</b> (2020): 0021998320918020. Impact Factor: <b>1.972</b>	2020
9	<b>V. Kavimani</b> , 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" <b>Composites Part B: Engineering, ELSEVIER</b> , Volume 169, Pages 508-521 (ISSN: 1359-8368), Impact Factor: <b>7.635</b>	2019
10	<b>V. Kavimani</b> , 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", <b>Composites Part B: Engineering, ELSEVIER</b> Manuscript Published online 2019 ( ISSN: 1359-8368), Impact Factor: <b>7.635</b>	2019
11	Thankachan, Titus, K. Soorya Prakash, and <b>V. Kavimani</b> . "Investigating the effects of hybrid reinforcement particles on the microstructural, mechanical and tribological properties of friction stir processed copper surface composites." <b>Composites Part B: Engineering, ELSEVIER</b> (2019). Impact Factor: <b>7.635</b>	2019
12	<b>V. Kavimani</b> , K. Soorya Prakash, Titus Thankachan "Multi-objective optimization in WEDM process of Graphene – SiC- Magnesium composite through hybrid techniques" <b>Measurement, ELSEVIER</b> Manuscript Published online 2019 (ISSN: 0263-2241), Impact Factor: <b>3.364</b>	2019
13	<b>V. Kavimani</b> , K. Soorya Prakash, Titus Thankachan, "WEDM Parameter Optimization for Silicon@ r-GO/Magneisum Composite Using Taguchi Based GRA Coupled PCA", (2019) <b>Silicon – SPRINGER</b> (ISSN: 1876-9918). Impact Factor: <b>1.499</b>	2019
14	<b>V. Kavimani</b> , K. Soorya Prakash "Tribo-Surface Characteristics and wear behaviour of SiC@r-GO/Mg composite worn under varying control factor" <b>Silicon – SPRINGER</b> Manuscript Published online 2019, (ISSN: 1876-9918). Impact Factor: <b>1.499</b>	2019
15	T. Saravana kumar , <b>V. Kavimani</b> , K. Soorya Prakash, T. Selvaraju "Exploring the corrosion inhibition of Magnesium by coatings Formulated with nano CeO2 and ZnO particles", <b>Progress in Organic Coatings – ELSEVIER</b> , Manuscript Published online 2019. (ISSN: 0300-9440). Impact Factor: <b>4.469</b>	2019
16	P. Senthil Kumar, <b>V. Kavimani</b> , K. Soorya PrakashV. Murali Krishna,G. Shanthos Kumar, "Effect of TiB2 on the Corrosion Resistance Behavior of In Situ Al Composites" <b>Journal of Metal casting SPRINGER</b> , Manuscript Published online 2019(ISSN: 2163-3193), Impact Factor: <b>1.409</b>	2019
17	<b>V. Kavimani</b> , K. Soorya Prakash , R. Gunashri, P. Sathish "Corrosion protection behavior of r-GO/TiO2 hybrid composite coating on Magnesium substrate in 3.5 wt. % NaCl", <b>Progress in Organic Coatings – ELSEVIER</b> , Manuscript Published online December 2018. (ISSN: 0300-9440). Impact Factor: <b>4.469</b>	2018

18	<b>V. Kavimani</b> , K. Soorya Prakash “Doping effect of SiC over graphene on dry sliding wear behaviour of Mg/SiC@r-GO MMCs and its surface characterization”,	2018
19	<b>V. Kavimani</b> , K. Soorya Prakash, Titus Thankachan "Investigation of graphene reinforced magnesium metal matrix composite processed through solvent based powder metallurgy route” <b>Bulletin of Materials Science – SPRINGER</b> , Manuscript Accepted for Publication 2018 (ISSN: 0973-7669).Impact Factor: <b>1.499</b>	2018
20	P. Mohan Das Gandhi, K. Soorya Prakash, <b>Kavimani V</b> "Effect of r-GO/TiO2 hybrid composite as corrosion-protective coating on Magnesium in sulphur based electrolyte" <b>Anti-Corrosion Methods and Materials – EMERALD</b> , Manuscript Accepted for Publication (ISSN: 0003-5599). Impact Factor: <b>0.73</b>	2018
21	Titus Thankachan, K. Soorya Prakash , <b>V. Kavimani</b> “Effect of friction stir processing and hybrid reinforcements on copper”, <b>Materials and Manufacturing Processes – Taylor &amp; Francis</b> Manuscript Published online: 28 March 2018 (ISSN: 1042-6914 (Print) 1532-2475 (Online).Impact Factor: <b>3.35</b>	2018
22	Titus Thankachan, K. Soorya Prakash, <b>V. Kavimani</b> “Investigations on the effect of friction stir processing on Cu-BN surface composites”, <b>Materials and Manufacturing Processes – Taylor &amp; Francis</b> Volume 33, Issue 3, Pages 299–307, 2018 (ISSN: 1042-6914 (Print) 1532-2475 (Online).Impact Factor: <b>3.35</b>	2018
23	<b>Kavimani V</b> , 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”, <b>Applied Surface Science – ELSEVIER</b> , Volume 424, Part 1, Pages 63-71, December 2017 (ISSN: 0169-4332).	2017
24	<b>V. Kavimani</b> , K. Soorya Prakash “Tribological behaviour predictions of r-GO reinforced Mg composite using ANN coupled Taguchi approach”, <b>Journal of Physics and Chemistry of Solids – ELSEVIER</b> , Vol. 110, Pages 409-419, November 2017. (ISSN: 0022-3697) Impact Factor: <b>3.442</b>	2017
25	<b>V. Kavimani</b> , K. Soorya Prakash, M. Arun Pandian “Influence of r-GO addition on enhancement of corrosion and wear behavior of AZ31 MMC”, <b>Applied Physics A - Materials Science &amp; Processing – SPRINGER</b> Article 514, Vol. 123, Issue 8, August 2017 (ISSN: 0947-8396 (Print)1432-0630 (Online) Impact Factor: <b>1.810</b>	2017
26	<b>V. Kavimani</b> , K. Soorya Prakash, Titus Thankachan “Surface characterization and specific wear rate prediction of r-GO/AZ31 composite under dry sliding wear condition”, <b>Surfaces and Interfaces– ELSEVIER</b> , Volume 6, Pages 143–153, March 2017 (ISSN: 2468-0230).Impact Factor: <b>3.724</b>	2017
27	K. Soorya Prakash, P. M. Gopal, <b>Kavimani V</b> “Investigations on mechanical and machinability behaviour of aluminium / fly ash cenosphere / Gr hybrid composites processed through compocasting”, <b>Journal of Applied Research and Technology – ELSEVIER</b> , Accepted manuscript for Publication (ISSN: 1665-6423). cite score: <b>0.81</b>	2017
28	K. Soorya Prakash, P. M. Gopal, <b>Kavimani V</b> “Effect of rock dust, cenosphere and E - waste addition on mechanical, wear and machinability behaviour of Al 6061 hybrid composites” <b>Indian Journal of Engineering</b>	2016

	<b>&amp; Materials Sciences – NISCAIR</b> Vol. 24, pp. 270-282, August 2017(ISSN: 0975-1017). <b>Impact Factor: 0.521</b>	
29	K. Soorya Prakash, R. Sathiya Moorthy, P.M. Gopal, <b>V. Kavimani</b> , “Effect of Reinforcement, Compact Pressure and Hard Ceramic Coating on Aluminium Rock Dust Composite Performance”, <b>International Journal of Refractory Metals and Hard Materials – ELSEVIER</b> , Vol. 54, Pages 223–229, 2016 (ISSN: 0263-4368). <b>Impact Factor: 3.407</b>	2016
30	K. Soorya Prakash, P. Balasundar, S. Nagaraja, P.M. Gopal, <b>V. Kavimani</b> , “Mechanical and Wear Behaviour of Mg–SiC–Gr Hybrid Composites”, <b>Journal of Magnesium and Alloys - ELSEVIER</b> , Volume 4, Issue 3, Pages 197–206, September 2016 (ISSN: 2213-9567). <b>Impact Factor: 7.115</b>	2016
31	K. Soorya Prakash, P.M. Gopal, Anburose D, <b>V. Kavimani</b> , “Mechanical, Corrosion and Wear Characteristics of Powder Metallurgy Processed Ti-6Al-4V/ B4C Metal Matrix Composites”, <b>Ain Shams Engineering Journal – ELSEVIER</b> , Available online 14 November 2016 (ISSN: 2090-4479). <b>Impact Factor: 3.09</b>	2016