ANNA UNIVERSITY DC MEMBER 3 - Dr. TITUS THANKACHAN

Last five years publications

1. **Titus Thankachan,** K. SooryaPrakash, Microstructural, mechanical and tribological behavior of aluminum nitride reinforced copper surface composites fabricated through friction stir processing route, *Material Science and Engineering A, 2017, vol. 688, pp. 301–308***[SCI./SCIE., I.F.: 3.094].**

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3. V. Kavimani, K. SooryaPrakash, **Titus Thankachan,** Surface characterization and specific wear rate prediction of r-GO/AZ31 composite under dry sliding wear condition, *Surfaces and Interfaces, 2017, vol. 6, pp.143-153.*

4. K. SooryaPrakash, **Titus Thankachan,** R. Radhakrishnan, Parameteric optimization of dry sliding wear loss of copper-MWCNT composites - A statistical and ANN approach. *Transaction of Non Ferrous Metals Society of China, 2017, vol. 27, pp.627-637***[SCIE., I.F.: 1.342].**

5. **Titus Thankachan,**K.SooryaPrakash, M. Loganathan, Effect of process parameters in WEDM of Copper-BN surface composites, *Materials and Manufacturing Process, 2018, vol. 33 (3), pp. 350–358* **[SCIE., I.F.: 2.274].**

6. **Titus Thankachan,** Soorya Prakash K, Devaraj Ramasamy, Balasubramanian Prabakaran, SathiskumarJothi, Machine Learning for degraded Mechanical Properties of Metallic Materials due to the presence of hydrogen, *International Journal of Hydrogen Energy, 2017, vol. 42, pp.28612-28621***[SCI./SCIE., I.F.: 3.582].**

7. **Titus Thankachan,** K. SooryaPrakash, MujibRahman, Optimizing the tribological behavior of hybrid copper surface composites using statistical and machine learning techniques, *ASME Journal of Tribology, 2018, vol. 140, pp. 03161-1 - 03161-8***[SCI./SCIE., I.F.: 1.521].**

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11. **Titus Thankachan,**SooryaPrakash K, R. Malini, S. Ramu, Prabhu Sundararaj, Sivakumar Rajandran, Devaraj Rammasamy, Sathiskumar Jothi, Prediction of Surface roughness and Material removal rate in Wire Electrical Discharge Machining on Aluminum Based Alloys/Composites using Taguchi Coupled Grey Relational Analysis and Artificial Neural Networks.*Applied Surface Science, 2019, vol. 472, pp.22-35***[SCI./SCIE., I.F.: 3.387].**

12. **Titus Thankachan,** Sooryaprakash K, Saranya C, Inigovalan V, Mathematical analysis on the effect of tin on mechanical, electrical and thermal properties in magnesium-tin alloys. *Materials discovery, 2018, vol.12, pp.55-62.*

13. Kavimani, V, 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, 2019, vol. 162, pp. 508–521* **[SCI./SCIE., I.F.: 4.920].**

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17. Kavimani, V., K. Soorya Prakash, **Titus Thankachan,** S. Nagaraja, A. K. Jeevanantham, Jithin P. Jhon. WEDM Parameter Optimization for Silicon@ r-GO/Magneisum Composite Using Taguchi Based GRA Coupled PCA. Silicon, 2019, pp. 1-15. **[SCIE., I.F.: 1.25].**

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22. **Titus Thankachan,** 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.**[SCIE., I.F.: 1.99].**