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### **List of Publications**

1. R. Ruban Blessed Singh, T. Sasi Kumar, S. Suresh, G. Ramanan, 'A Novel Detection of Defects in Al-SiC Composite by Active Pulsed Infrared Thermography Using Data and Image Processing', Transactions of the Indian Institute of Metals, September 2020, Volume 73, Pages 2767-2783.
2. M. Navaneetha Krishnan, S. Suresh, S.C. Vettivel, 'Effects on Micro-Surface Texturing of Mg/B<sub>4</sub>C Matrix Composites Under Dry Sliding Wear Condition', Transactions of the Indian Institute of Metals, February 2020, Volume 73, Pages 897-912.
3. C Emmy Prema, S Suresh, G Ramanan, M Sivaraj, 'Characterization, corrosion and failure strength analysis of Al7075 influenced with B<sub>4</sub>C and Nano-Al<sub>2</sub>O<sub>3</sub> composite using online acoustic emission', Materials Research Express, January 2020, Volume 7, Number 1.
4. A Radha, S Suresh, G Ramanan, V Mohanavel, C Emmy Prema, 'Processing and characterization of mechanical and wear behavior of Al7075 reinforced with B<sub>4</sub>C and nano graphene hybrid composite', Materials Research Express, Volume 6, Number 12, December 2019.
5. I Manivannan, S Ranganathan, S Suresh, P Philomen-D-Anand Raj, 'Failure analysis using online acoustic emission and tribological behavior of Al6061-Al<sub>2</sub>O<sub>3</sub> nano composite', Materials Research Express, Volume 6, Number 12, November 2019.
6. C Mahil Loo Christopher, T Sasikumar, S Suresh, 'Analysis of failure mode and fracture behavior by using acoustic emission parameter and artificial neural network', Engineering Research Express, Volume 1, Number 1, July 2019.
7. I Manivannan; S. Ranganathan; S. Gopalakannan; S. Suresh; D. Candane, 'Mechanical and wear surface characterisation of aluminium hybrid nanocomposite' International Journal of Computational Materials Science and Surface Engineering (IJCMSSE), 2019, Volume 8.

8. G Ramanan, S Suresh, N Rajesh Prabha, J Edwin Raja Dhas, 'Characterization, wear surface roughness and tensile failure analysis of Al7075-TiC-MoS<sub>2</sub> hybrid composites using online acoustic emission', Materials Research Express, March 2019 Volume 6, Number 6.
9. C Mahil Loo Christopher, T Sasikumar, S Suresh, 'Detection of crack development with Al/SiCp using tensile with online acoustic emission', Journal of Alloys and Compounds, March 2019, Volume 778, Pages 951-961.
10. I Manivannan, S Ranganathan, S Gopalakannan, S Suresh, 'Mechanical properties and Tribological behavior of Al6061-SiC-gr self-lubricating hybrid nanocomposites', Transactions of the Indian Institute of Metals, August 2018, Volume 71, Issue 8, Pages 1897-1911.
11. I Manivannan, S Ranganathan, S Gopalakannan, S Suresh, 'Dry Sliding Wear behaviour of cast Al/Al<sub>2</sub>O<sub>3</sub>/Gr hybrid nano-composite using response surface methodology', IOP Conference Series: Materials Science and Engineering, 2018, Volume 390 (1).
12. M Navaneetha Krishnan, S Suresh, SC Vettivel, 'Characterization, formability, various stresses and failure analysis on workability of sintered Mg-5% B 4 C composite under triaxial stress state condition', Journal of Alloys and Compounds, Volume 7, May 2018, Pages 324-339.
13. C Emmy Prema, SS Vinsley, S Suresh, 'Efficient flame detection based on static and dynamic texture analysis in forest fire detection', Fire Technology, January 2018, Volume 54, Issue 1, Pages 255-288.
14. I. Manivannan, S. Ranganathan, S. Gopalakannan, S. Suresh, K. Nagakarthigan, R. Jubendradass, 'Tribological and surface behavior of silicon carbide reinforced aluminum matrix nanocomposite', Surfaces and Interfaces, Volume 8, September 2017, Pages 127-136.
15. N Subramonia Pillai, P Seenii Kannan, S Suresh, S C Vettivel, 'Measurement and Control of Emissions from Diesel Engine Operated by Biodiesel with Bio additives of Mentha piperita' Measurement and Control, Volume 50, Issue-2, Pages 31-38, April 2017.
16. N. Subramonia Pillai, P. Seenii Kannan, S.C. Vettivel, S. Suresh, 'Optimization of transesterification of biodiesel using green catalyst derived from Albizia Lebbeck Pods by mixture design', Renewable Energy, Volume 104, April 2017, Pages 185-196.
17. S.C. Vettivel, R. Jegan, J. Vignesh, S. Suresh, 'Surface characteristics and wear depth profile of the TiN, TiAlN and AlCrN coated stainless steel in dry sliding wear condition' Surfaces and Interfaces, Volume 6, March 2017, Pages 1-10.
18. R Arravind, M Saravanan, A Baradeswaran, SC Vettivel, S Suresh, 'Tribological and Surface Behaviour of AA 6061/Al<sub>2</sub>O<sub>3</sub>/Nano Graphite Hybrid Composite Using Stir

Casting, Journal of the Balkan Tribological Association Volume 22, Issue-3, 2016, Pages-2218-2226.

19. S.L. Sango, P. Seeni Kannan, S. Suresh, S.C. Vettivel, S. Christopher Ezhil Singh, 'Effects of Moisture Content and Die Pressure of Artocarpus Heterophyllus Leaves Powder Biomass Processing by using Response Surface Methodology', Asian Journal of Research in Social Sciences and Humanities, 2016, Volume 6, Issue 12, Pages 731- 742.
20. N. Subramonia Pillai, P. Seeni Kannan, S. Suresh, 'Experimental Investigation on Emission Characteristics of Variable Compression Ratio CI Engine Fuelled by Combined Biodiesel', Asian Journal of Research in Social Sciences and Humanities, 2016, Volume 6, Issue 9, pages 1419-1429.
21. C. Emmy Prema, S. S. Vinsley, S. Suresh, 'Multi Feature Analysis of Smoke in YUV Color Space for Early Forest Fire Detection', Fire Technology, September 2016, Volume 52, Issue 5, Pages 1319–1342.
22. C.M. Anand Partheeban, M. Rajendran, S.C. Vettivel, S. Suresh, N.S.V. Moorthi, 'Mechanical behavior and failure analysis using online acoustic emission on nano-graphite reinforced Al6061–10TiB<sub>2</sub> hybrid composite using powder metallurgy', Materials Science and Engineering: A, Volume 632, April 2015, Pages 1-13.
23. C.M. Anand Partheeban, M. Rajendran, S.C. Vettivel, S. Suresh, J. Bensam Raj, 'Wear behavior of nano graphite reinforced Al6061-10TiB<sub>2</sub> hybrid composite using powder metallurgy', International Journal of Applied Engineering Research Volume 10, Number 2, 2015, Pages 2761-2770.