

## **Publications in International Journals**

### **Academic Year 2019-20**

1. V.E.Annamalai, S.Vijayan, H.Saeedipour, "The rise of short fibre reinforced plastics", Reinforced Plastics, August 2019
2. V. Venkatesan, N. Nallusamy, "Pine oil-soapnut oil methyl ester blends: A hybrid biofuel approach to completely eliminate the use of diesel in a twin cylinder off-road tractor diesel engine", Fuel, Volume 262, 15,116500, February 2020
3. V. Venkatesan, N. Nallusamy, P. Nagapandiselvi, "Waste-to-Energy Approach for Utilizing Non-edible Soapnut Oil Methyl Ester as a Fuel in a Twin-Cylinder Agricultural Tractor Diesel Engine", Energy & Fuels, Accepted, 2020
4. N. Nallusamy, Rahul Roy, A. Surya, "Experimental Investigation on Heat Transfer Enhancement of Latent Heat Storage System Containing Spherical Capsules with Internal Hollow and Solid fins ", AIP Conference Proceedings , Vol. 2161, 020001 October 2019
5. B. Janakiraman, M. Gajendiran, N. Nallusamy, "Performance and emission characteristics of diesel engine fueled with diesel, bio diesel and additives", AIP Conference Proceedings , Vol. 2161, 020023 October 2019
6. J. Jabin, N. Nallusamy, V. Vigneshwaran, "Comprehensive review on heat transfer characteristics of microchannel heat sinks ", AIP Conference Proceedings , Vol. 2161, 020007 October 2019
7. V. Venkatesan, N. Nallusamy, "Study of performance and emission characteristics of twin cylinder off road diesel engine using soapnut oil methyl ester and diesel blends", AIP Conference Proceedings , Vol. 2161, 020002 October 2019
8. V. Vigneshwaran, N. Nallusamy, J. Jabin, "Review on relation of heat pipes with nanotechnology for heat transfer enhancement", AIP Conference Proceedings , Vol. 2161, 020056 October 2019
9. K.Subbaiah, "Microstructure and mechanical properties of Tungsten Inert Gas Welded Joints of Cast Al-Mg-Sc alloy ", Materials Today: Proceedings, Vol.16, pp.248-253, August 2019
10. KL Harikrishna, S R Koteswara Rao Sreekanth Dondapati N Rameshbabu, "Influence of Plasma Electrolytic Oxidation on Corrosion Characteristics of Friction Stir Welded ZM21 Magnesium Alloy", Protection of Metals and physical chemistry of Surfaces, 55, 4, 735 - 742, August 2019
11. "T. Srinivasa Rao, S. R. Koteswara Rao, G. Madhusudhan Reddy, "Microstructure and fracturing behavior of AA7075–T651 aluminum alloy cooled during friction stir welding"", Metal Science and Heat Treatment, 61,5-6, pp-1-8, November 2019"
12. G Selvakumar, V Balasubramanian, S Vijayan and N Lenin, "Effects of multi-pass cutting during wire electrical discharging", Materials Testing, Accepted for Publication, Sept 2019

13. Lakshmi Narasimhan N, T. Amalesh, "Cooling of A Lithium Ion Battery Using Phase Change Material With Air/Dielectric Fluid Media: A Numerical Study", Proc. IMechE Part-A (J Power and Energy) SAGE, Accepted for Publication, August 2019
14. Sankgeeth VS , Shami Jose , Arun Prakash C and Anand Ronald B, "Effect of Input Velocity on the Output of Vertical Axis Wind Turbine (VAWT)", Lecture Notes in Mechanical Engineering, Accepted, 2020
15. K S Manoranjan, V Harish Narayanan, T Manoj Kumar, R Ashwin and K S Vijay Sekar, "Investigation of friction models in the machining of Inconel 625 Super Alloy using FEM", IOP Conf. Series: Materials Science and Engineering, pp. 577, December 2019
16. M. Suresh, B. Rahul, Sharan Srinivasan and Vinaya Krishna, "Numerical investigations on enhancement of bi-evaporator compression refrigeration system using ejector as expansion device", AIP Conference Proceedings, 2161, 020028 October 2019
17. A.K. Lakshminarayanan and K.S. Jayakumar, "Use of Friction Extrusion to Fabricate Magnesium Alloy Wires with Rare Earths from Machined Chips", Material Science Forum, Vol. 979, pp 119-123, December 2019
18. K. S. Jayakumar, and R. Vimalsamsingh, "Development of 3D object's geometrical properties based architecture for physical symbol grounding", AIP Proceedings, 2161, 020008, October 2019
19. Tony B Jain A.R, Alphin, M.S and Velmurugan, D, "Influence of handle shape and size to reduce the hand-arm vibration discomfort", Work - A Journal of Prevention Assessment & Rehabilitation , 63(3), pp. 415-426, August 2019.
20. V. Gopal, M. S. Alphin, and R. Bharanidaran, "Design of Compliant Mechanism Microgripper Utilizing the Hoekens Straight Line Mechanism", Journal of Testing and Evaluation , In press, July 2019
21. P. Loganathan, A. Gnanavelbabu, K. Rajkumar and S. Ayyanar, "Microstructural Characteristics and Mechanical Behaviour of AA7075/TiB2 Composite", Materials Science Forum, Vol. 979, pp 40-46, 2019
22. K.Rajkumar, S.Varun, G.Prasanna, C.Sreyas, A. Gnanavelbabu, "Tribological Analysis by Concentration Effect of Boron Carbide and Graphite on the Aluminum Composites", Materials Science Forum, Vol. 969, pp 163-168, September 2019
23. P. Loganathan, A. Gnanavelbabu, K. Rajkumar, "Analysis and Characterization of Friction Behaviour on AA7075/ZrB2 Composite Under Dry Sliding Condition", Materials Research Express, Vol. 233 (10), 3603-3618, 2019
24. Arhtur Jebastian, Arun Vasantha Geethan, D.Ananthpadmanaban, S.Vijayananth, "Correlation between Mechanical properties and microstructure of Fe-Ti-Zn alloys fabricated by powder metallurgy", Lecture Notes,,Springer Nature, pp 319-327, 2019
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26. M. Gowthama Krishnan, and S. Rajkumar , "NO<sub>x</sub> emission characteristics of biodiesel fuelled compression ignition engines and its control strategies – A review", AIP Conference Proceedings, Vol. 2161: pp: 020005-1 - 020005-6, October 2019
27. S. Rajkumar, S. Shriram, and N. Rohith, "Effect of biodiesel fuel reformulation on emission characteristics–A review", AIP Conference Proceedings, Vol. 2161, pp: :020055-1 - 020055-4, October 2019
28. V. Karthik Srinivas, A.K. Lakshminarayanan, "On the Local Constitutive Behavior of Friction Stir Welded AISI 304 Stainless Steel Joints", Material Science Forum, Vol. 979, pp 107-113, November 2019
29. Srivasupradha Ramesh, A.K. Lakshminarayanan, Yogesha Raghavan, Yashaswin Harathi, "Fabrication and Numerical Analysis of Friction Stir Back Extruded Lightweight Magnesium Alloy Heat Pipes", Material Science Forum, Vol. 979, pp 129-134, November 2019
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39. U. Yokeshwaraperumal, A. S. Ramana, C. Arun Prakash, and V. Kannan, "Performance study of a solar greenhouse dryer ", AIP Conference Proceedings, 2161, 020027 (2019) 1-7, October 2019
40. S. Pon Vignesh Pappu, M. Ajin, and Satheesh Kumar Gopal, "Development of Prototype Variable Geometry In-Pipe Robot for Reconfigurable Applications", Springer Nature: Lecture Notes on Multidisciplinary Industrial Engineering , 675-683, November 2019
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49. Lakshmanan S, Pradeep Kumar M, Dhananchezian M and Yuvaraj N, "Investigation of AlCrN-Coated Inserts on Cryogenic Turning of Ti-6Al-4V Alloy", Metals, 9, 1338, December 2019
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52. N. Sivashanmugam, KL. Harikrishna, "Influence of Rare Earth Elements in Magnesium Alloy - A Mini Review", Materials Science Forum, 979, 162-166, 2019

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57. B. Jayakishan, G Nagarajan, J Arun, "Co-thermal liquefaction of Prosopis juliflora biomass with paint sludge for liquid hydrocarbons production", *Bioresource Technology - Elsevier*, 283, 303-307, July 2019
58. Sakthi Vigneshwaran S C, Arun Prakash C, "Design, Analysis and Fabrication of Semi-Automatic Trash Masher", *Lecture Notes in Mechanical Engineering*, Accepted, 2020

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1. P.Sabarinathan, V.E.Annamalai, S.Sureshkumar and A.Xavier Kennedy, "A study on recovery of alumina grains from spent vitrified grinding wheel", *Journal of Material Cycles and Waste Management*, 21, 156–165, (2019)
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9. R. Aarthi and K.Subbaiah, "Effect of Al-Mg Filler Rods on the Microstructure and Mechanical Properties of TIG welded thick AA5083-F Alloys.", *International Journal of Mechanical and Production Engineering and Research*, Vol. 8, Special Issue 7, 603-606, Oct 2018
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