

List of Publications

1. Prasad, V., Joseph, M.A., Sekar, K., Investigation of mechanical, thermal and water absorption properties of flax fibre reinforced epoxy composite with nano TiO₂ addition, *Composites: Part A* (2018), *Composites Part A: Applied Science and Manufacturing*, 11, 2018, 360-370
2. K. Kalaiselvan, A. Elango, N. M. Nagarajan, K. Sekar: Studies on Characteristics of Ti6Al4V/AA2024 Dissimilar Weld Joint Using Laser Beam Focusing from AA2024 Side, *Transactions of the Indian Institute of Metals*, Vol. 70 (1), 2017, pp. 01-7.
3. K. Sekar, K. Allesu, M. A. Joseph: Mechanical and wear properties of Al-Al₂O₃ metal matrix composites fabricated by the combined effect of stir and squeeze casting method, *Transactions of the Indian Institute of Metals*, Vol. 68 (2), 2015, pp. 115-121..
4. K. Sekar, K. Allesu, M.A. Joseph: Design, construction and performance evaluation of multiple casting machine, *Nigerian journal of technology (nijotech)*, Vol. 32(30), 2013, pp. 498 – 506.
5. Sekar, K. Allesu, K and Joseph, M.A: Effect of T6 heat treatment in the microstructure and mechanical properties of A356 alloy reinforced with Al₂O₃ particles by combination effect of stir and squeeze casting, *Procedia Materials* (Elsevier), Vol. 5, 2014 pp. 444 – 453.
6. Sekar, K. Allesu, K and Joseph, M.A: Comparison Study of as-cast and T6 Condition of Microstructure, Bending Strength and Double Shear Strength of A356 Alloy by Gravity, Vacuum and Squeeze Casting, *International Journal of Applied Mechanics and Materials* Vol. 594, 2014, pp. 102-105.
7. Sekar, K. Allesu, K and Joseph, M.A: Effect of T6 heat treatment in tribological properties of A356 aluminium alloy reinforced with Al₂O₃ nano particles by combination effect of stir and squeeze casting, *International Journal of Applied Mechanics and Materials* Vol. 592, 2014, pp. 968-971.
8. K. Kalaiselvan, A. Elango, N.M. Nagarajan, K. Sekar: Weldability of Ti/Al Dissimilar Sheet Metal Joints Using Nd:YAG Pulsed Laser, *International Journal of Materials* Vol.4,2017, pp.31-35.
9. K.Sekar, N.Krishna Kumar, P.Vasanthakumar: Centrifugal Pump as Turbine: Experimental Report, *International Journal of ChemTech Research (USA)* Vol.10, (14), 2017, pp 276-280.
10. Sekar K. Allesu K. and Joseph, M.A: Evaluation of mechanical and tribological properties of A356 aluminum alloy reinforced with Al₂O₃ particles with and without T6 heat treatment, *International Colloquium on Materials, Manufacturing and Metrology, (ICMMM 2014)*, Indian Institute of Technology, IIT Madras, Chennai, India, 2014, pp. 79-80.
11. K.Sekar, N.Krishna Kumar, P.Vasanthakumar: Centrifugal Pump as Turbine for Micro-Hydro Power Scheme in Rural Areas of India: A Review, *International Journal of ChemTech Research (USA)* Vol.10, (14), 2017, pp 106-109.
12. Dheeraj Tripathi, K. Joseph Babu, K. Prabhakaran Nair, K. Sekar : Chemical Modification of Palm Oil for low temperature applications and study on its Tribological Properties, *Journal of Advanced Engineering Research*, Vol.4(2),2017, pp.109-113.
13. K. Kalaiselvan, A. Elango, N.M. Nagarajan, K. Sekar, and N. Mathiazhagan: Studies on Interlayer Characteristics of Ti/Al Dissimilar Metal Joints Using Laser Beam, *Journal of Manufacturing Technology Research* Vol.9,(1-2),2017, pp.1-13.