

List of Publications

1. Dr. M. Ramu, Chinnuraj, S., Ramaswamy, T., Venkatachalam, M., Nataraj, M., Murugan, R., and Selvakumar, M., "Optimization of Process Parameters of Epoxy Granite for Strength and Damping Characteristics Using TOPSIS Method", Journal of Testing and Evaluation 49, 2019.
2. Dr. M. Ramu, S, P. A., R, R., and P, G., "Multi-response Optimization of End Milling Parameters for Al-Zn-Mg/SiC Co-continuous Composite Using Response Surface Methodology", Testing and Analysis of Materials, 2019.
3. S. T Kumar, Shalini, S., Dr. M. Ramu, and Dr. Govindaraj M., "Characterisation of AZ31/ZrO₂ composites produced via stir casting", Materials Research Express, vol. 6, p. 1165d1, 2019.
4. T. Kumaresan, Gandhinathan, R., Dr. M. Ramu, and Gunaseelan, M., "Biomechanical analysis of implantation of polyamide/hydroxyapatite shifted architecture porous scaffold in an injured femur bone", International Journal of Biomedical Engineering and Technology, vol. 30, pp. 16-30, 2019.
5. S. Chidambara Raja, L.A. Kumaraswamidhas, P. Karthikeyan, and Dr. M. Ramu, "Prediction of pressure dependent effective thermal conductivity of two phase materials in high temperature applications-An analytical method using hexagon and octagon models", International Journal of Thermal Sciences, vol. 135, pp. 192 - 205, 2019.
6. Dr. M. Ramu, S, P. A., R, R., and P, G., "Multi-response Optimization of End Milling Parameters for Al-Zn-Mg/SiC Co-continuous Composite Using Response Surface Methodology", Testing and Analysis of Materials, 2019.
7. S. T Kumar, Shalini, S., Dr. M. Ramu, and Dr. Govindaraj M., "Characterisation of AZ31/ZrO₂ composites produced via stir casting", Materials Research Express, vol. 6, p. 1165d1, 2019.
8. T. Kumaresan, Gandhinathan, R., Dr. M. Ramu, and Gunaseelan, M., "Biomechanical analysis of implantation of polyamide/hydroxyapatite shifted architecture porous scaffold in an injured femur bone", International Journal of Biomedical Engineering and Technology, vol. 30, pp. 16-30, 2019.
9. S. Chidambara Raja, L.A. Kumaraswamidhas, P. Karthikeyan, and Dr. M. Ramu, "Prediction of pressure dependent effective thermal conductivity of two phase materials in high temperature applications-An analytical method using hexagon and octagon models", International Journal of Thermal Sciences, vol. 135, pp. 192 - 205, 2019.
10. Vignesh P., Krishna Kumar R., Dr. M. Ramu, Lakshminarayanan A., Idapalapati S., and Vasudevan M., "Evaluation of Mechanical and Thermal Behaviour of Particle-Reinforced Metal Matrix Composite Using Representative Volume Element Approach", Advances in Materials and Metallurgy. Lecture Notes in Mechanical Engineering, pp. 415-425, 2019.
11. Chidambara Raja S, Karthikeyan P, L. A. Kumaraswamidhas, and Dr. M. Ramu,

“Effect of primary and secondary parameters on analytical estimation of effective thermal conductivity of two phase materials using unit cell approach”, *Heat and Mass Transfer*, vol. 54, no. 5, pp. 1323–1335, 2018.

12. Dr. M. Ramu, Ananthasubramanian, M., Kumaresan, T., Gandhinathan, R., and Jothi, S., “Optimization of the configuration of porous bone scaffolds made of Polyamide/Hydroxyapatite composites using Selective Laser Sintering for tissue engineering applications”, *Bio-Medical Materials and Engineering*, vol. 29, pp. 739-755, 2018.
13. Dr. M. Ramu, Venugobal, P. R., Ramaswami, T. P., Jothi, S., and Chinnusamy, S., “Studies on the effect of weld defect on the fatigue behavior of welded structures”, *China Welding (English Edition)*, vol. 27, pp. 53-59, 2018.
14. Dr. M. Ramu, Mitilesh, R. N., and Singamneni, S., “Influence of process parameters on the mechanical behaviour and processing time of 3D printing”, *International Journal of Modern Manufacturing Technologies*, vol. 10, pp. 69-75, 2018.
15. S. Karuthapandi and Dr. M. Ramu, “An experimental investigation of flat wire electrodes and their weld bead quality in the FCAW process”, *High Temperature Material Processes: An International Quarterly of High-Technology Plasma Processes*, vol. 21, pp. 65-79, 2017.
16. S. Venkatesan and Dr. M. Ramu, “Effect of mechanical properties and corrosion behavior of sputtered Ti thin film on AA7075 substrate.”, *High Temperatures – High Pressures*, vol. 46, pp. 115 - 131, 2017.
17. Dr. M. Ramu, “Evolution of electrode geometry shape and their weld quality in FCAW”, *High Temperature Material Processes*, 2017.
18. Dr. M. Ramu, Banu Pradheepa Kamarajan, Dinakar Rai B K, Vignesh Mathialagan, Shanthakumari, and Ananthasubramanian Muthusamy, “Evaluation of selective laser sintered polyamide/hydroxyapatite composite compositions –in vitro and in vivo”, *International Journal of Biomedical Research*, vol. 8, no. 8, pp. 467-474., 2017.
19. S. Karuthapandi, Dr. M. Ramu, and Thyla, P. R., “Effects of the use of a flat wire electrode in gas metal arc welding and fuzzy logic model for the prediction of weldment shape profile”, *Journal of Mechanical Science and Technology*, vol. 31, pp. 2477-2486, 2017.
20. Dr. M. Ramu, S Udhayakumar, and V Prabhu Raja, “Theoretical Performance Evaluation and Finite Element Analysis of Differential Gear Box Housings”, *National Journal of Technology*, vol. 2, pp. 37 - 41, 2016.
21. Dr. M. Ramu, Kumaresan T., Gandhinathan R, Ananthasubramanian M, and Banu Pradheepa K, “Comparative Study of Conventional and Rapid Prototyping Technique for the Fabrication of Porous Scaffold for Tissue Engineering Applications”,

Biomedicine, vol. 36, no. 3, pp. 036-041, 2016.

22. Dr. M. Ramu, S. Venkatesan, and M. Yuvaraja, "Characterization and evaluation of the mechanical properties of a sputtered Ti thin film on AA6061 substrate", *High Temperature Material Processes: An International Quarterly of High-Technology Plasma Processes*, vol. 20, pp. 241–250, 2016.
23. Dr. M. Ramu, Karuthapandi, S., and P. K. Palani, "Study and analysis of the macrostructure characteristics in FCAW with the use of a flat wire electrode and by optimizing the process parameter using the Taguchi method and regression analysis", *High Temperature Material Processes*, vol. 20, no. 3, pp. 197-224, 2016.
24. Dr. M. Ramu and S. Venkatesan, "Influence of Controlled Deposition Rate on Mechanical Properties of Sputtered Ti Thin Films for MEMS Application", *Material Science-Poland*, vol. 34, pp. 735-740, 2016.
25. T. Kumaresan, Gandhinathan, R., Dr. M. Ramu, Ananthasubramanian, M., and K. Banu Pradheepa, "Design, Analysis and Fabrication of Polyamide/ Hydroxyapatite Porous Structured Scaffold using Selective Laser Sintering Method for Bio-medical Applications", *Journal of Mechanical Science and Technology*, vol. 30, pp. 5305–5312, 2016.
26. Dr. M. Ramu and S. Venkatesan, "Effect of Thickness on the Properties of Sputtered Ti Thin Films on AA1100 for MEMS Application", *High Temperature Material Processes: An International Quarterly of High-Technology Plasma Processes*, vol. 20, pp. 45–57, 2016.
27. Dr. M. Ramu, V. Janakiraman, K. Suresh, and C. Godwin Jose, "Saving Electrical Energy in Industries by Optimizing Cutting Parameters of CNC Machine Tools", *International Journal of Chemical Sciences*, vol. 14, pp. 399-408 , 2016.
28. Dr. M. Ramu, D. Arunkumar, M. Udayakumar, Amos Gamaleal David, and S. Shanmugasundaram, "Experimental study of Solar Assisted Winddriven System", *International Journal of Applied Engineering Research*, vol. 11, pp. 613-618, 2016.
29. V. Prabhu Raja, Dr. M. Ramu, P. R. Thyala, S. Aithal, V. Rajan Babu, and P. Chellapandi, "Structural design optimization of roof slab of a pool type sodium cooled fast reactor", *Advances in Engineering Software*, vol. 102, pp. 92-104, 2016.