

## CENTRE FOR RESEARCH



ANNA UNIVERSITY, CHENNAI – 600 025

### LIST OF PUBLICATIONS OF DC MEMBER



Name of the Scholar : Niranjana K

Programme : Ph.D. (PT)

Research Topic : Additive Manufacturing of Natural Fiber Reinforced Polymer matrix Composites

Name of the Supervisor: Dr. M. RAMESH / 2620070

Name of the Member : Dr. M. Ramu

S.No	Title	Year of Publication
1	D Arunkumar, M Ramu, R Murugan, S Kannan, S Arun, Sanjeevi Baskar Investigation of heat transfer of wall with and without using phase change material” Materials Today: Proceedings	2020
2	T Satish Kumar, S Shalini, M Ramu, Titus Thankachan” Characterization of ZrC reinforced AA6061 alloy composites produced using stir casting process” Journal of Mechanical Science and Technology Volume 34 Issue 1 Pages 143-147	2020
3	Prabhu Raja Venugopal, P Dhanabal, PR Thyla, S Mohanraj, Mahendrakumar Nataraj, M Ramu, Harshad Sonawane” Design and analysis of epoxy granite vertical machining centre base for improved static and dynamic characteristics” Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications Volume 234 Issue 3 Pages 481-495	2020
4	S Chidambara Raja, LA Kumaraswamidhas, P Karthikeyan, 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 Volume 135 Pages 192-205	2019
5	M Ramu, M Ananthasubramanian, T Kumaresan, R Gandhinathan, Sathiskumar Jothi” 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 Volume 29 Issue 6 Pages 739-755	2018
6	SV Adiban, M Ramu” Study on the effect of weld defects on fatigue life of structures” Materials Today: Proceedings Volume 5 Issue 9 Pages 17114-17124	2018

7	P Karthikeyan, LA Kumaraswamidhas, 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 Volume 54 Issue 5 Pages 1323-1335	2018
8	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.	2017
9	Dr. M. Ramu, Mathialagan, V., ,, and Muthusamy, A., “Evaluation of selective laser sintered polyamide/hydroxyapatite composite compositions –in vitro and in vivo”, International Journal of Biomedical Research, vol. 8, pp. 467-474., 2017.	2017
10	Dr. M. Ramu, “Evolution of electrode geometry shape and their weld quality in FCAW”, High Temperature Material Processes , 2017.	2017
11	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	2017
12	VaPrabhu Raja, Dr. M. Ramu, Thyla, P. Ra, Aithal, Sc, Babu, VdRajan, and Chellapandi, Pe, “Structural design optimization of roof slab of a pool type sodium cooled fast reactor”, Advances in Engineering Software, vol. 102, pp. 97-104, 2016.	2016
13	Dr. M. Ramu, .Arunkumar, D., ,, David, A. Gamaleal, and .Shanmugasundaram, S., “Experimental study of Solar Assisted Winddriven System”, International Journal of Applied Engineering Research, vol. 11, 2016.	2016
14	Dr. M. Ramu, ,, Suresh, K., and C. Jose, G., “Saving Electrical Energy in Industries by Optimizing Cutting Parameters of CNC Machine Tools”, International Journal of Chemical Sciences, vol. 14, pp. 399-408 , 2016.	2016
15	Dr. M. Ramu and Venkatesan, S., “Effect of Thickness on the Properties of Sputtered Ti Thin Films on AA1100 for R MEMS Application”, High Temperature Material Processes: An International Quarterly of High-Technology Plasma Processes, vol. 20, pp. 45–57.	2016
16	T. Kumaresan, Gandhinathan, R., Dr. M. Ramu, Ananthasubramanian, M., and K. Pradheepa, B., “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	2016
17	Dr. M. Ramu, Venkatesan, S., “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

18	Dr. M. Ramu and Karuthapandi, S., “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.	2016
19	Dr. M. Ramu and Venkatesan, S., “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.	2016
20	Dr. M. Ramu et al “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.	2016
21	Dr. M. Ramu, Udhayakumar, S., and V Raja, P., “Theoretical Performance Evaluation and Finite Element Analysis of Differential Gear Box Housings”, National Journal of Technology, vol. 2, pp. 37 - 41, 2016.	2016
22	Dr. M. Ramu and David.S, J., “Modelling Surface Finish For Aluminium Based Hybrid Metal Matrix Composite By RSM”, International Journal of Applied Engineering Research, vol. 10, pp. 21885-21897, 2015.	2015
23	P. Raja Venugopal, Dr. M. Ramu, Thyla, P. Ramaswami, Aithal, S., V. Babu, R., Perumal, C., and Raj, B., “Experimental and Numerical Investigations on Roof Slab of a Pool Type Sodium Cooled Fast Reactor Based on Model Studies”, Annals of Nuclear Energy, vol. 85, pp. 1085 - 1095, 2015.	2015