

Dr. K. Shanmuga Sundaram
Professor
Engineering Design Division
Department of Mechanical Engineering
College of Engineering Guindy
Anna University, Chennai – 600 025

List of Publications for last 5 years

1. Gurusami, K., et al. "Influence of Nd: YAG laser shock peening process parameters on tribomechanical behaviour of dental cast alloys." Journal of the Balkan Tribological Association 21.4 (2015): 866-880.
2. Yamini, S. Shanmugasundaram: study mechanical behavior of natural based composite using coir and aloevera." Int J Emerging Technol Comput Sci Electron 13 (2015): 976-1353.
3. Gurusami, K., Karibeeran Shanmuga Sundaram, and R. Vijay. "Influence of Nd: YAG Laser Parameters on Tensile Behaviour, Microhardness and Surface Roughness of Ni-Cr Alloy for Dental Prostheses." Applied Mechanics and Materials. Vol. 766. Trans Tech Publications Ltd, 2015.
4. Dhanalakshmi, S., et al. "Microstructural and Mechanical behaviour of Aluminium Matrix Composites reinforced with coated SiC particles fabricated by Stir Casting." Applied Mechanics and Materials. Vol. 766. Trans Tech Publications Ltd, 2015.
5. Sathishkumar, Dhanalakshmi, et al. "Finite element analysis and experimental study on the effect of extrusion ratio during hot extrusion process of aluminium matrix composites." Defence Science Journal 67.4 (2017): 428.
6. Paranthaman, V., K. Shanmuga Sundaram, and A. Vinoth Jebaraj. "Analysis of structure property relationship of super duplex stainless steel AISI 2507 weldments for severe corrosive environments." Materials Research Express 5.9 (2018): 096527.
7. Jaivignesh, M., et al. "Evaluation of Mechanical Properties of Al (2014)- Nickel Coated SiC Composites Subjected to Equal Channel Angular Pressing." Journal of Advanced Microscopy Research 13.2 (2018): 282-292.
8. Gurusami, K., Shanmuga Sundaram, K., Chandramohan, D., Dinesh Kumar, S., Vasantha Srinivasan, P. and Sathish, T, 'A comparative study on surface strengthening characterisation and residual stresses of dental alloys using laser shock peening,' International Journal of Ambient Energy, 2019.

9. DB Raja, KS Sundaram, R Vidya, 'First principle study on hybrid organic- inorganic perovskite ASnBr_3 (A= Formamidinium, Dimethylammonium and Azetidinium),' Solar Energy, (2020)
10. Shanmuga Sundaram & Vasudevan Murugan, 'Effect of Tool Rotational Speed on Microstructure and Mechanical Properties of 6061-T6 and 7075- T651 Aluminium Alloys fabricated by Friction Stir Welding using Scrolled Shoulder with Cylindrical Threaded Pin,' Interciencia, 2020
11. Pradeep, N., Shanmuga Sundaram, K. & Pradeep Kumar M, 'Performance investigation of variant polymer graphite electrodes used in electrochemical micromachining of ASTM A240 grade 304,' Materials and Manufacturing Processes, 2020
12. Pradeep, N., Shanmuga Sundaram, K. & Pradeep Kumar M, 'Multi-response optimization of electrochemical micromachining parameters for SS304 using polymer graphite electrode with NaNO_3 electrolyte based on TOPSIS technique,' J Braz. Soc. Mech. Sci. Eng., 2020.
13. S M Mullaikodi, K Shanmugasundaram, Vaddi Seshagiri Rao and Sathish Rengarajan, 'Synthesis, characterization and machinability studies on thin hybrid composites with SiC nano particles,' Materials Research Express, 2020.

List of Patent for last 5 years

1. K Shanmugasundaram, Fabrication of Electromagnetic Forming, The Patent Office, Government of India - Date of Grant: 10/08/2020