List of publications

1) Vignesh Kumar, M., Padmanaban, G., & Balasubramanian, V. (2020). Role of tool pin profiles on wear characteristics of friction stir processed magnesium alloy ZK60/silicon carbide surface composites. Materialwissenschaft und Werkstofftechnik, 51(2), 140-152.
2) Vignesh kumar, M., Padmanaban, G., Balasubramanian, V. (2019). Influence of Tool Tilt Angle on the Formation of Friction Stir Processing Zone in Cast Magnesium Alloy ZK60/SiCp Surface Composites. Metallography, Microstructure, and Analysis, 8(1), 58 – 66.
3) GnanaSekaran, S., Padmanaban, G.,BalaSubramanian, V., Kumar, H., Albert, S.K.(2019). Laser hardfacing of Colmonoy-5 (Ni-Cr-Si-B-C) powder onto 316LN austenitic stainless steel: Effect of powder feed rate on microstructure, mechanical properties and tribological. Lasers in Engineering, 42(4-6), 283-302.
4) GnanaSekaran, S., Padmanaban, G.,BalaSubramanian, V., Kumar, H., Albert, S.K.(2019). Correlation between Travel Speed, Microstructure, Mechanical Properties and Wear Characteristics of Ni-Based Hardfaced Deposits over 316LN Austenitic Stainless Steel. High Temperature Materials and Processes, 38, 16-29
5) Vigneshkumar, M., Padmanaban, G.,Balasubramanian,V. (2018). Influence of tool rotational speed on the formation of friction stir processing zone in cast Zk60/SiCp magnesium alloy surface composites. Materials Performance and Characterization, 7(6).
6) Vignesh Kumar, M., Padmanaban, G., Balasubramanian, V.(2018). Sliding Wear Characteristics of Friction Stir Processed CAST ZK60 Magnesium Alloy Under Different Applied Loads. Transactions of the Indian Institute of Metals, 71(5), 1223-1230.
7) Gnanasekaran, S., Padmanaban, G., Balasubramanian, V., Kumar, H., Albert, S.K. (2017). Optimizing the laser parameters to attain maximum hardness in nickel based hardfacing surfaces .Journal of the Mechanical Behavior of Materials, 26(3-4), 113-125
8) Gnanasekaran, S., Padmanaban, G., Balasubramanian, V. (2017). Effect of laser hardfacing process parameters on microstructural characteristics and microhardness of Ni-Cr-B-Si-C deposit on austenitic stainless steel substrate. Journal of Advanced Microscopy Research, 12(3), 173-181.

9) Gnanasekaran, S., Padmanaban, G., Balasubramanian, V. (2017). Effect of Laser Power on Metallurgical, Mechanical and Tribological Characteristics of Hardfaced Surfaces of Nickel-Based Alloy. Lasers in Manufacturing and Materials Processing, 4(4), 178-192.
10) Subravel, V., Padmanaban, G., Balasubramanian, V. (2017). Effect of welding speed on tensile properties and microstructural characteristics of magnetic arc oscillation welded AZ31B magnesium alloy.Journal of Advanced Microscopy Research, 12(1), 50-59.