

## **SUGAVANESWARAN M - PUBLICATION**

1. MS Alam, **M Sugavaneswaran**, G Arumaikkannu, B Mukherjee “An innovative method of ocular prosthesis fabrication by bio-CAD and rapid 3-D printing technology: A pilot study” Orbit 36 (4), 223-227, 2017.
2. **M Sugavaneswaran**, AV Jebaraj, MDB Kumar, K Lokesh, AJ Rajan, “Enhancement of surface characteristics of direct metal laser sintered stainless steel 316L by shot peening” Surfaces and Interfaces 12, 31-40, 2018
3. **M Sugavaneswaran**, N Rajesh, N Sathishkumar, “Design of Robot Gripper with Topology Optimization and Its Fabrication Using Additive Manufacturing”, Advances in Additive Manufacturing and Joining, 75-85, 2020
4. G Sathish Sharma, **M Sugavaneswaran**, U Vijayalakshmi, R Prakash, “Influence of  $\gamma$ -alumina coating on surface properties of direct metal laser sintered 316L stainless steel”, Ceramics International, 2019.
5. R Prithvirajan, **M Sugavaneswaran**, N Sathishkumar, G Arumaikkannu, “Metal bellow hydroforming using additive manufactured die: a case study”, Rapid Prototyping Journal 2019.
6. AV Jebaraj, **M Sugavaneswaran**, “Influence of Shot Peening on Residual Stress Distribution and Corrosion Resistance of Additive Manufactured Stainless Steel AISI 316L”, Transactions of the Indian Institute of Metals, 1-3 5, 2019.
7. N Sathishkumar, **M Sugavaneswaran**, G Arumaikkannu, “Investigation of sparse mode build style on material consumption, build time and compressive behaviour of additive manufactured cellular structures”, 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016) 2016.
8. M Sugavaneswaran, G Arumaikkannu, “Additive manufactured multi-material structure with directional specific mechanical properties based upon classical lamination theory”, Rapid Prototyping Journal 24 (7), 1212-1220, 2018.
9. R Prithvirajan, **M Sugavaneswaran**, N Sathishkumar, G Arumaikkannu, “Study on feasibility of FDM made ABS die for metal bellow hydroforming”, Proceedings of International Conference on Manufacturing Technology and Simulation-ICMTS-2017
10. AS Babu, M Jaivignesh, S Srinivasan, **M Sugavaneswaran**, “Design of Functional Gradient Porous Structure and its Fabrication using DMLS Process”, Materials Today: Proceedings 24, 1561-1569, 2020.
11. **M Sugavaneswaran**, A Kulkarni, “Effect of Cryogenic Treatment on the Wear Behavior of Additive Manufactured 316L Stainless Steel”, Tribology in Industry 41 (1), 33-42, 2019.

12. G Sathish Sharma, **M Sugavaneswaran**, R Prakash, "An Experimental Investigation on Regulated and Unregulated Emissions of a Gasohol Fueled SI Engine with a Novel Three Way Catalytic Converter", *Journal Européen des Systèmes Automatisés* 53 (2), 219-224, 2020.
13. RV Duraibabu, R Prithvirajan, **M Sugavaneswaran**, G Arumaikkannu, "Compression behavior of Functionally Graded Cellular Materials fabricated with FDM", *Materials Today: Proceedings* 24 (2), 1035-1041, 2020.
14. **M Sugavaneswaran**, N Rajesh, V Katta, G Sathish Sharma, R Prakash, "Deep Drawing Simulation Study for Catalytic Converter Housing Sheet", *Materials Today: Proceedings* 22 (4), 1326-1332, 2020.
15. A John Rajan, **M Sugavaneswaran**, B Prashanthi, S Siddhant Deshmukh, Jose, "Influence of Vapour Smoothing Process Parameters on Fused Deposition Modelling Parts Surface Roughness at Different Build Orientation", *Materials Today: Proceedings* 22 (4), 2772-2778, 2020.
16. **M Sugavaneswaran**, S Saha, PP Kumar, GS Sharma, R Prakash, "Computational Fluid Analysis on Catalytic Converter with More Surface Area Monolithic Structure" *International Journal of Automotive and Mechanical Engineering* 16, 7093-7107, 2019.
17. **M Sugavaneswaran**, M Thomas Prince, A Azad, "Effect of Electroplating on Surface Roughness and Dimension of FDM parts at Various build orientations", *FME TRANSACTIONS* 47 (4), 800-886, 2019.
18. A Suresh Babu, KM Binish, M Jaivignesh, **M Sugavaneswaran**, "Modelling of Functional Gradient Porous Structure and its Fabrication using Additive Manufacturing Process", *Materials Today Proceedings* 5 (11), 24558-24567, 2018.
19. **M Sugavaneswaran**, Utkarsh Nayak, Somnath Saha, Nitheeshm M Nair, Swaminathan Parasuraman, Prasanna Kumar, "Additive manufacturing of fractal antenna for electronics applications", *Proceedings of the 3rd International Conference on Progress in Additive Manufacturing*, ISSN: 2424-8967, 644 - 649, 2018
20. G Arumaikkannu, R Vijayanand, **M Sugavaneswaran**, "Experimental investigation on fracture resistance behavior of additive manufactured multi material structure with corrugated interface", *Proc. of the 2nd Intl. Conf. on Progress in Additive Manufacturing*, Published by Research Publishing, Singapore, ISSN: 2424-8967, 2016