List of Journal Publication

1. Arumaikkannu G,Gowri S, and Muralikrishna S, " Modeling of RP-FDM using response surface methodology to predict the influence of process parameters on porosity", Journal of Manufacturing Technology Today, Vol. 13, Issue 3, pp. 3-6 (2004).

2. G Arumaikkannu, N Uma Maheshwaraa, S Gowri, " A genetic algorithm with design of experiments approach to predict the optimal process parameters for FDM", 2005 International Solid Freeform Fabrication Symposium , (2005).

3. G. Arumaikkannu, S. Gowri and S. Muralikrishna, "Modeling and Simulation of Multi Response Optimization of Rapid Prototype Components", Journal of Manufacturing Technology and Research , Vol. 2, Issue 1, pp. 64-70 (2006).

4. Arumaikkannu G., Sreeramulu.M and Gowri S, "Finite element analysis of parts fabricated by FDM ", Journal of Manufacturing Technology Today, Vol. 6, Issue 6, pp. 27-31 (2007).

5. G Arumaikkannu, M Sreeramulu, S Gowri, SA Prasad, J Bharanitharan, " WITHDRAWN: Mechanical Behavior of Fused Deposition Modeling Material", Journal of Materials Processing Technology , published by Elsevier. (2007).

6. N Uma Maheshwaraa, G Arumaikkannu, S Gowri, " Three-dimensional reconstruction and rapid prototyping of femur bone using multiple digital X-rays", Journal of medical engineering & technology , published by Taylor & Francis. Vol. 32, Issue 1, pp. 30-39 (2008).

7. Devika, D. and Arumaikkannu, G, " Finite Element Analysis and Rapid Prototyping to enhance the patient specific implant fabrication", SME Technical Paper , published by SME-USA. pp. 1-12 (2009).

8. K Ravi Kumar, KM Mohanasundaram, G Arumaikkannu, R Subramanian, B Anandavel, " Influence of Particle Size on Dry Sliding Friction and Wear Behavior of Fly Ash Particle-Reinforced A 380 Al Matrix Composites", European Journal of Scientific Research ,Vol. 60, Issue 3, pp. 410-420 (2011).

9. D Devika, G Arumaikkannu, " Evaluation of mechanical behaviour of bone, implant and bone–implant interface by numerical simulation of two surgical fixation procedures using finite element analysis", International journal of computer applications in technology - , published by
Inderscience Publishers. Vol. 42, Issue 2, pp. 225-232 (2011).
10. V Vidyaa, G Arumaikkannu, "Hybrid design of a polymeric electrothermal actuator for microgripper", International Journal of Mechanical and Industrial Engineering , Vol. 1, Issue 2, pp. 2231-6477 (2011).
11. Rashia Begum, S and Arumaikkannu, G, " Computational Fluid Dynamic Analysis of Customized Bone Scaffold ", International Journal of Applied Engineering Research, Vol. 6, Issue 5, pp. 685-692 (2011).
12. D Devika, G Arumaikkannu, "Evaluation of mechanical behaviour of bone, implant and bone–implant interface by numerical simulation of two surgical fixation procedures using finite element analysis", International journal of computer applications in technology - , Vol. 42, Issue 2, pp. 225-232 (2011).
13. Devika, D. and Arumaikkannu, G, "Study on influence of Implant thickness and fixation position on implant stability using Finite Element Analysis", Journal of Biomimetics, Biomaterials and Tissue Engineering, Vol. 9, pp. 47-55 (2011).
14. KR Kumar, KM Mohanasundaram, G Arumaikkannu, R Subramanian, "Analysis of parameters influencing wear and frictional behavior of aluminum–fly ash composites", Tribology Transactions , Vol. 55, Issue 6, pp. 723-729 (2012).
15. KR Kumar, KM Mohanasundaram, G Arumaikkannu, R Subramanian, " Analysis of parameters influencing wear and frictional behavior of aluminum–fly ash composites", Tribology Transactions , published by Taylor & Francis Group. Vol. 55, Issue 6, pp. 723-729 (2012).
16. KR Kumar, KM Mohanasundaram, G Arumaikkannu, R Subramanian, " Effect of particle size on mechanical properties and tribological behaviour of

aluminium/fly ash composites", Science and Engineering of Composite Materials , published by De Gruyter. Vol. 19, Issue 3, pp. 247-253 (2012).
17. KR Kumar, KM Mohanasundaram, G Arumaikkannu, R Subramanian, " Artificial neural networks based prediction of wear and frictional behaviour of aluminium (A380)–fly ash composites", Tribology-Materials, Surfaces & Interfaces, published by Taylor & Francis. Vol. 6, Issue 1, pp. 15-19 (2012).
18. Vidyaa, V and Arumaikkannu, G, " Hybrid-design of an electro-thermally actuated polymeric Micro actuator for a microgripper ", International Journal of Mechanical and Industrial Engineering , Vol. 1, Issue 2, (2012).
19. KR Kumar, KM Mohanasundaram, G Arumaikkannu, R Subramanian, "Artificial neural networks based prediction of wear and frictional behaviour of aluminium (A380)–fly ash composites", Tribology-Materials , Vol. 6, Issue 1, pp. 15-19 (2012).
20. S Rashia Begum, G Arumaikkannu, " Computational Fluid Dynamic Analysis of Customised Tibia Bone Scaffold", Applied Mechanics and Materials , published by Trans Tech Publications Ltd. Vol. 330, pp. 698-702 (2013).
21. S Rashia Begum, G Arumaikkannu, " Design, analysis and fabrication of customised bone scaffold using RP technology", International journal of computer applications in technology , published by Inderscience Publishers Ltd. Vol. 47, Issue 4, pp. 364-369 (2013).
22. BS Rashia, G Arumaikkannu, B Ashiq, " Modeling, Analysis and Rapid Manufacturing of Customised Tibia Bone Scaffold", Advanced Materials Research , published by Trans Tech Publications Ltd. Vol. 622, pp. 595-599 (2013).
23. M Sugavaneswaran, G Arumaikkannu, " Modelling for randomly oriented multi material additive manufacturing component and its fabrication", Materials & Design (1980-2015), published by Elsevier. Vol. 54, pp. 779-785 (2014).
24. G Arumaikkannu, M Sugavaneswaran, K Saravanan, "Influence of Reinforcement Volumetric Percentage and", (2014).

25. G Arumaikkannu, M Sugavaneswaran, K Saravanan, "Influence of Reinforcement Volumetric Percentage and Aspect Ratio on Additive Manufactured Multi Material Structure in Uniaxial Loading", (2014).
26. P Balamurugan, G Arumaikkannu, "Design for customized additive manufactured exoskeleton using bio CAD modeling", Proceedings of the international conference on innovations in engineering and technology (ICIET'14), Madurai, Tamil Nadu, India, (2014).
27. V Iraimudi, SR Begum, G Arumaikkannu, R Narayanan, " Design and fabrication of customised scaffold for femur bone using 3D printing", Advanced Materials Research , published by Trans Tech Publications Ltd. Vol. 845, pp. 920-924 (2014).
28. K. Hariharan , G. Arumaikkannu, "In Vitro Analysis of Hydroxyapatite Coated Bio-Additive Manufactured Implant", Advanced Materials Research, published by Trans Tech Publications. Vol. 845, pp. 246-250 (2014).
29. K.Swarnalakshmi and G.Arumaikkannu, "Influence of process parameters on surface finish in customized bone implant using selective laser sintering", Advanced Materials Research , published by Trans Tech . Vol. 845, pp. 862-867 (2014).
30. Arul Kishore, A, Rashia Begum, S & Arumaikkannu, "Investigation of porosity relationship in Additive Manufactured novel bone scaffold", Applied Mechanics and Materials, Vol. 592, pp. 836-841 (2014).
31. Saravanan K, Arumaikkannu G, "Influence of Reinforcement Volumetric Percentage on the Flexural Properties of Multi Material Additive Manufactured Component ", International Journal of Innovative Research in Science, Engineering and Technology , published by IEEE International Conference on Innovations in En. Vol. 3, Issue 3, pp. 1315-1320 (2014).
32. G Arumaikkannu, P Balamurugan, "Bio Cad Modeling of Customized Exoskeleton for Rehabilitation of Myopathies and its Fabrication Using Additive Manufacturing", (2014).

33. K Swarna Lakshmi, G Arumaikkannu, " Evaluation of Surface Roughness in Additive Manufactured customised implant using Artificial Neural Network based on 2D Fourier transform–A Machine Vision approach", published by Biomedical Research. Vol. 26, Issue 4,
pp. 34-40 (2015).
34. K Hariharan, G Arumaikkannu, " Influence of Hydroxyapatite coated Additive Manufactured polyamide substrate on Biocompatibility.", published by Biomedical Research. (2015).
35. SR Begum, G Arumaikkannu, " Computational fluid dynamic analysis and additive manufacturing of customised bone scaffolds", Progress in Computational Fluid Dynamics , published by Inderscience Publishers (IEL). Vol. 15, Issue 3, pp. 197-201 (2015).
36. K Swarna Lakshmi, G Arumaikkannu, "Evaluation of Surface Roughness in Additive Manufactured customised implant using Artificial Neural Network based on 2D Fourier transform–A Machine Vision approach", Biomedical Research , Vol. 26, Issue 4, pp. 34-40 (2015).
37. M Sugavaneswaran, G Arumaikkannu, "Analytical and experimental investigation on elastic modulus of reinforced additive manufactured structure", Materials and Design , published by Elsevier. Vol. 66, pp. 29-36 (2015).
38. Hariharan K and Arumaikkannu G, "Influence of Hydroxyapatite coated Additive Manufactured polyamide substrate on Biocompatibility", Biomedical Research, published by Allied Academies. Vol. 26, Issue 4, pp. S15-21 (2015).
39. S Rashia Begum, G Arumaikkannu, "Finite Element Analysis in Additive Manufactured Customised Bone Scaffold", Biomedical Research, published by Allied Academies. Vol. 26, Issue 4, pp. S29-33 (2015).
40. K Hariharan, M Sugavaneswaran, G Arumaikkannu, "Structural, Mechanical And Invitro Study On Pulsed Laser Deposition Of Hydroxyapatite On Additive Manufactured Substrate", (2016).

41. H Kuppuswamy, A Ganesan, "Structural, mechanical and in vitro studies on pulsed laser deposition of hydroxyapatite on additive manufactured polyamide substrate", International journal of Bioprinting , Vol. 2, Issue 2, (2016).
42. G Arumaikkannu, R Vijayanand, M Sugavaneswaran, "Experimental investigation on fracture resistance behavior of additivemanufacturedmultimaterial structure with corrugated interface",
(2016).
43. KS Lakshmi, G Arumaikkannu, " COMPARATIVE STUDY OF SURFACE ROUGHNESS PREDICTION FOR SELECTIVE LASER SINTERING PROCESS USING MULTIPLE REGRESSION MODEL AND ARTIFICIAL NEURAL NETWORK", Int J Adv Engg Tech/Vol.
VII/Issue II/April-June , Vol. 1326, pp. 1329 (2016).
44. 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 , (2016).
45. Alam M.S., Sugavaneswaran M., Arumaikkannu G., Mukherjee B., "An innovative method of ocular prosthesis fabrication by bio-CAD and rapid 3-D printing technology: A pilot study", Orbit, published by Taylor and Francis Ltd. Vol. 36, Issue 4, pp. 223-227 (2017).
46. KS Lakshmi, G Arumaikkannu, " Influence of process parameters on tensile strength of additive manufactured polymer parts using taguchi method", Advances in 3D Printing & Additive Manufacturing Technologies , published by Springer, Singapore. pp. 1-7 (2017).
47. K Hariharan, G Arumaikkannu, " Influence of Oxygen Partial Pressure on Hydroxyapatite Coating of Additive Manufactured Component by Pulsed Laser Deposition", Advances in 3D Printing & Additive Manufacturing Technologies , published by Springer, Singapore. pp. 55-64
(2017).

48. K Hariharan, G Arumaikkannu, "Hydroxyapatite Coating on Selective Laser Sinter Polyamide Substrate by Electron Beam Deposition.", Journal of Polymer Materials , Vol. 35, Issue 2, (2018).
49. Sugavaneswaran M., Arumaikkannu G., "Additive manufactured multi-material structure with directional specific mechanical properties based upon classical lamination theory", Rapid Prototyping Journal, published by Emerald Group Publishing Ltd.. Vol. 24, Issue 7, pp. 1212-1220 (2018).
50. Hariharan K., Arumaikkannu G., "Hydroxyapatite coating on selective laser sinter polyamide substrate by electron beam deposition", Journal of Polymer Materials, published by PRINTS PUBLICATIONS PVT LTD. Vol. 35, Issue 2, pp. 149-157 (2018).
51. Rajendra Boopathy V., Sriraman A., Arumaikkannu G., "Energy absorbing capability of additive manufactured multi-material honeycomb structure", Rapid Prototyping Journal, published by Emerald Group Publishing Ltd.. Vol. 25, Issue 3, pp. 623-629 (2019).
52. Prithvirajan R., Sugavaneswaran M., Sathishkumar N., Arumaikkannu G., "Metal bellow hydroforming using additive manufactured die: a case study", Rapid Prototyping Journal, published by Emerald Group Publishing Ltd.. (2019).
53. M Jaivignesh, AS Babu, G Arumaikkannu, " In-vitro Analysis of Titanium Cellular Structures Fabricated by Direct Metal Laser Sintering", Materials Today: Proceedings , published by Elsevier . Vol. 22, pp. 2372-2377 (2020).
54. R Prithvirajan, G Arumaikkannu, " Redesigning ECMM Fixture with Part Consolidation and DfAM Principles", Advances in Additive Manufacturing and Joining , published by Springer, Singapore. pp. 209-217 (2020).
55. K Hariharan, G Arumaikkannu, T Ramkumar, M Selvakumar, " Material stability investigation of polyamide material before and after laser sintering", International Journal of Polymer Analysis and Characterization , published by Taylor & Francis. pp. 1-8 (2020).

56. RV Duraibabu, R Prithvirajan, M Sugavaneswaran, G Arumaikkannu, "Compression behaviour of Functionally Graded Cellular Materials fabricated with FDM", Materials Today: Proceedings , published by springer. Vol. 24, pp. 1035-1041 (2020).