

List of Publications

1. Uthayakumar M, Karnan B, Slota A, Zajac J, Davim JP. Performance Study of LaPO₄-Y₂O₃ Composite Fabricated by Sol-Gel Process Using Abrasive Waterjet Machining. In Handbook of Research on Green Engineering Techniques for Modern Manufacturing 2019 (pp. 143-161).
2. Balamurugan K, Uthayakumar M, Sankar S, Hareesh US, Warriar KG. Abrasive Waterjet Cutting of Lanthanum Phosphate—Yttria Composite: A Comparative Approach. In Micro and Nano Machining of Engineering Materials 2019 (pp. 101-119). Springer, Cham.
3. Uthayakumar M, Karnan B, Slota A, Zajac J, Davim JP. Performance Study of LaPO₄-Y₂O₃ Composite Fabricated by Sol-Gel Process Using Abrasive Waterjet Machining. In Handbook of Research on Green Engineering Techniques for Modern Manufacturing 2019 (pp. 143-161).
4. Arumugaprabu V, Ko TJ, Uthayakumar M, Johnson RD. Failure analysis in hybrid composites prepared using industrial wastes. In Failure Analysis in Biocomposites, Fibre-Reinforced Composites and Hybrid Composites 2019 Jan 1 (pp. 229-244). Woodhead Publishing.
5. Uthayakumar M, Kumar S, Parameswaran P. Evaluation of Electrical Discharge Machining Performance on Al (6351)–SiC–B₄C Composite. In Non-Conventional Machining in Modern Manufacturing Systems 2019 (pp. 109-124). IGI Global.
6. Skoczypiec S, Khan MA, Kumaran ST, Uthayakumar M, Bizon W. Microdrilling of AA (6351)-SiC-B₄C Composite Using Hybrid Micro-ECDM Process. Journal of Testing and Evaluation. 2018 Nov 30;48(4).
7. Balamurugan P, Uthayakumar M, Kumaran ST. Dry Sliding Wear Behavior of Copper Based Hybrid Metal Matrix Composite. Synthesis and Tribological Applications of Hybrid Materials. 2018 Oct 1;197-214.
8. Balamurugan K, Uthayakumar M, Gowthaman S, Pandurangan R. A study on the compressive residual stress due to waterjet cavitation peening. Engineering Failure Analysis. 2018 Oct 1;92:268-77.
9. Arumugaprabu V, Ko TJ, Kumaran ST, Kurniawan R, Kwak Y, Yu Z, Uthayakumar M. Performance of surface-textured end-mill insert on AISI 1045 steel. Materials and Manufacturing Processes. 2018 Sep 6:1-2.
10. Kumar SS, Uthayakumar M, Kumaran ST, Varol T, Canakci A. Investigating the surface integrity of aluminium based composites machined by EDM. Defence Technology. 2018 Aug 22.
11. Sivakumar S, Senthil Kumaran S, Uthayakumar M, Daniel Das A. Garnet and Al-flyash composite under dry sliding conditions. Journal of Composite Materials. 2018 Jul;52(17):2281-2288.
12. Pethuraj M, Uthayakumar M, Rajakarunakaran S, Rajesh S. Electrical Discharge Machining of Sillimanite Reinforced Aluminium Metal Matrix Composites. Journal of Advanced Microscopy Research. 2018 Jun 1;13(2):171-5.
13. Balamurugan K, Uthayakumar M, Sankar S, Hareesh US, Warriar KG Predicting correlation in Abrasive Waterjet cutting Parameters of Lanthanum phosphate /Yttria composite by Response Surface Methodology, Measurement, 2018
14. Balamurugan K, Uthayakumar M, Sankar S, Hareesh US, Warriar KG A Study on the Compressive residual stress due to waterjet cavitation peening Engineering Failure Analysis 92 268-277, 2018

15. Balamurugan K, Uthayakumar M, Sankar S, Hareesh US, Warriar KG. Modeling and surface texturing on surface roughness in machining LaPO₄-Y₂O₃ composite. *Materials and Manufacturing Processes*. 2018 Mar 12;33(4):405-13.
16. Arumugaprabu V, Uthayakumar M, Vigneshwaran S, Manikandan V, Bennet C. Erosion performance studies on sansevieria cylindrica reinforced vinylester composite. *Materials Research Express*. 2018 Mar 5.
17. Rajesh M, Sultan MT, Uthayakumar M, Jayakrishna K, Shah AU. Dynamic Behaviour of Woven Bio Fiber Composite. *BioResources*. 2018 Jan 30;13(1):1951-60.
18. Arumugaprabu V, Uthayakumar M, Manikandan V. Polyester-based redmud reinforced banana fibre composites: impact and flexural property studies. *International Journal of Computer Aided Engineering and Technology*. 2018;10(1-2):42-53.
19. Sivakumar S, Senthil Kumaran S, Uthayakumar M, Daniel Das A. Garnet and Al-flyash composite under dry sliding conditions. *Journal of Composite Materials*. 2017 Nov 19:0021998317742709.
20. Kumaran ST, Ko TJ, Uthayakumar M, Islam MM. Prediction of surface roughness in abrasive water jet machining of CFRP composites using regression analysis. *Journal of Alloys and Compounds*. 2017 Nov 15;724:1037-45.
21. Uthayakumar M, Babu KV, Kumaran ST, Kumar SS, Jappes JW, Rajan TP. Study on the machining of Al-SiC functionally graded metal matrix composite using die-sinking EDM. *Particulate Science and Technology*. 2017 Nov 9:1-7.
22. Kumaran ST, Ko TJ, Uthayakumar M, Khan MA, Muhammad I. Some experimental investigations on drilling AA (6351)-SiC-B₄C composite. *Materials and Manufacturing Processes*. 2017 Oct 3;32(13):1557-64.
23. Kumaran ST, Ko TJ, Uthayakumar M, Khan MA, Niemczewska-Wójcik M. Surface texturing by dimple formation in TiAlSiZr alloy using μ -EDM. *Journal of the Australian Ceramic Society*. 2017 Oct 1;53(2):821-8.
24. Sivakumar S, Senthil Kumaran S, Uthayakumar M, Daniel Das A. Garnet and Al-flyash composite under dry sliding conditions. *Journal of Composite Materials*. 2017 Nov 19:0021998317742709.
25. Kumaran ST, Ko TJ, Kurniawan R, Li C, Uthayakumar M. ANFIS modeling of surface roughness in abrasive waterjet machining of carbon fiber reinforced plastics. *Journal of Mechanical Science and Technology*. 2017 Aug 1;31(8):3949-54.
26. Rajesh S, Pethuraj M, Kumaran ST, Uthayakumar M, Rajini N. Some studies on drilling of red mud reinforced aluminum composite. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*. 2017 Jun;231(4):382-93.
27. Prabu VA, Kumaran ST, Uthayakumar M. Performance evaluation of abrasive water jet machining on banana fiber reinforced polyester composite. *Journal of Natural Fibers*. 2017, 4;14(3):450-7.
28. Shanmugavel R, Mekkandi P, Jayamani M, Rajini N, Uthayakumar M, Thirumalaikumaran S. Mechanical and Machinability characteristics of Al-NiTi composites reinforced with SiC particulates. *Journal of the Australian Ceramic Society*. 2017 Apr 1;53(1):177-85

Supervisor

Director / Head of the Center