

PUBLICATIONS

Dr. U. MOHAMMED IQBAL

1. **Mohammed Iqbal, U.**, Senthil Kumar, VS and Gopalakannan S ‘Application of Response Surface Methodology in optimizing the process parameters of Twist Extrusion Process for AA6061-T6 aluminium alloy’, Journal of Measurements, Elsevier Publications, vol. 94, pp.126-138, **2016**.(ISSN:0263-2241) **Impact Factor: 2.359**.
2. Ravivarman R, and **Mohammed Iqbal U** “Modelling and Performance Evaluation of a Duplex Reciprocating Pump”, International Journal of Control Theory and Applications, Vol.9 (37), pp.537-543, **2016 (Scopus Indexed)**
3. Santhakumar, J., **Mohammed Iqbal, U.**, Prakash, M, “Investigation on the effect of tensile strength on FDM build parts using taguchi-grey relational based multi-response optimization, International Journal of Mechanical Engineering and Technology 8 (12), 53-60, **2017(Scopus Indexed)**
4. Santhakumar J, **Mohammed Iqbal U** and Prakash M 2018, ‘Taguchi-Grey Relational Based Multi-Response Optimization on the Performance of Tool Coating Thickness in Pocket Milling’, Materials Today: Proceedings 5 (**2018**) 13422–13428, Elsevier publications (**Scopus Indexed**). **SNIP: 0.576**
5. J. Santhakumar, **U. Mohammed Iqbal** and Prakash M 2018, ‘Optimization of one direction tool path orientation for pocket milling of Ti-6AL-4V using Taguchi based grey relational Analysis’ IOP Conf. Series: Materials Science and Engineering 402 (**2018**) 012166 doi:10.1088/1757-899X/402/1/012166 (**Scopus Indexed**)
6. Prakash M and **U. Mohammed Iqbal** 2018, Parametric optimization in turning of AA2014/Al₂O₃ Nano Composite for machinability assessment using sensors, IOP Conf. Series: Materials Science and Engineering 402 (**2018**) 012013 doi:10.1088/1757-899X/402/1/012013 (**Scopus Indexed**)

7. S. Vignesh, **U. Mohammed Iqbal**, G. Tigere, “Optimization of End Milling Process of OHNS under different cutting environment using Taguchi and Response Surface Methodology (RSM) Approach, International Journal of Advances in Materials and Processing Technologies, Taylor & Francis Publishers, 5(1), 78-94, **2019.ISSN: 2374-0698, Scopus Indexed.**

8. G. Tigere, **U. Mohammed Iqbal**, S. Vignesh, “Comparative study of different coolants in end milling of OHNS using minimum quantity lubrication technique”, Journal of Applied Science and Engineering, 22(1), 93-102, **2019. (ESCI and Scopus Indexed)**

9. Santhakumar, J., **Mohammed Iqbal, U.**, “Parametric optimization of trochoidal step on surface roughness and dish angle in end milling of AISID3 steel using precise measurements”, *Materials* **2019**, 12 (8), 1335; <https://doi.org/10.3390/ma12081335>, MDPI Publishers, ISSN 1996-1944, **Impact Factor: 2.467**

10. **Mohammed Iqbal, U., Muralidharan, S., 2019** “Optimization of Die design parameters and experimental validation on Twist Channel Angular Pressing Process (TCAP) of AA6061-T6 Aluminium alloy” *Materials Research Express*, 6(8), 0865f2, IOP Publishing Ltd., **2019, Impact Factor: 1.449.**

11. Santhakumar, J., **Mohammed Iqbal, U.**, “Role of trochoidal machining process parameter and Chip morphology studies during end milling of AISI D3 steel”, *Journal of Intelligent Manufacturing*, Springer Publishers, **2019**, Accepted for publication, ISSN: 0956-5515, **Impact Factor: 3.535**

12. Chandiran Sakthivel, Velkkudi Santhanam Senthil Kumar, **Usuff Mohammed Iqbal**, “Effects of Prior Annealing on the Mechanical Properties of a Twist-Extruded AA 7075 Aluminum Alloy”, *Materials and Technology* 2020, 54 (1), 17-23, ISSN 1580-2949, doi:10.17222/mit.2019.084. **Impact Factor: 0.714, SCIE Indexed.**

13. Santhakumar, J., Mohammed Iqbal, U., “Minimization of Specific Cutting Energy Consumption during Slot Milling Integrated with Tool path Pattern Using Grey Relational Analysis” *Journal of Green Engineering (JGE)*, Alpha Publishers, 2020, 10 (7), 3361–3375. **(Scopus Indexed)**

14. **U. Mohammed Iqbal** and S Muralidharan “Effect of Heat Treatment and Plasma Arc Welding on the Mechanical and Metallurgical Properties of Hastelloy C276” *IOP Conf. Series: Materials Science*

and Engineering, 2020, **912 (3)**, 032002. doi:10.1088/1757-899X/912/3/032002, (**Scopus Indexed**)SNIP: 0.543

15. S. Arun kumar, S. Muralidharan and **U. Mohammed Iqbal** “A study on the combined effect of aging and severe plastic deformation on the mechanical properties of AA6061 alloy” IOP Conf. Series: Materials Science and Engineering, 2020, **912 (3)**, 032017.doi:10.1088/1757-899X/912/3/032017, (**Scopus Indexed**)SNIP: 0.543
- 16 Muddubhai Asif Hussain, **U. Mohammed Iqbal** “Zero Defect Assurance of 3-Wheeler product using IoT Systems” IOP Conf. Series: Materials Science and Engineering, 2020, **912 (3)**, 032025, doi:10.1088/1757-899X/912/3/032025. (**Scopus Indexed**)SNIP: 0.543
- 17 S. Vignesh, **U. Mohammed Iqbal** “Experimental Investigation on machining parameters of Ti6Al4V Titanium alloy using cryogenic coolants” IOP Conf. Series: Materials Science and Engineering, 2020, **912 (3)**, 032051, doi:10.1088/1757-899X/912/3/032051. (**Scopus Indexed**)SNIP: 0.543
- 18 **U. Mohammed Iqbal**, S. Muralidharan, Abhishek PV, “Experimental studies on magnesium metal matrix composites processed by twist extrusion” IOP Conf. Series: Materials Science and Engineering, 2020, **912 (3)**, 032055. doi:10.1088/1757-899X/912/3/032055. (**Scopus Indexed**)SNIP: 0.543