

## SCI/Scopus Indexed Journal Publications

1	International Journal Of Machining And Machinability Of Materials	Influence of jet impact angle on part geometry in abrasive waterjet turning of aluminium alloys (2008)	R. Manu and N. Ramesh Babu
2	Wear	An erosion-based model for abrasive waterjet turning of ductile materials (2009)	R. Manu and N. Ramesh Babu
3	Advances In Manufacturing	Study on the Effect of Machining Parameters on Edge-chipping during Drilling of Glass using Grinding Aided Electrochemical Discharge Machining (G-ECDM) ( 2017)	Ladeesh V. G. and R. Manu
4	Proceedings Of The Institution Of Mechanical Engineers, Part C: Journal Of Mechanical Engineering Science	Grinding-aided electrochemical discharge drilling in the light of Electrochemistry (2018)	Ladeesh V. G. and R. Manu
5	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Machining of fluidic channels on borosilicate glass using grinding-aided electrochemical discharge engraving (G-ECDE) and process optimization (2018)	Ladeesh V. G. and R. Manu
6	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Performance Evaluation and Multi-Response Optimization of Grinding Aided Electro-Chemical Discharge Drilling (G-ECDD) of Borosilicate Glass (2018)	Ladeesh V. G. and R. Manu
7	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Multi-objective optimization of roundness, cylindricity and areal surface roughness of Inconel 825 using TLBO method in wire electrical discharge turning (WEDT) process (2019)	Jees George, R. Manu and Jose Mathew
8	Arabian Journal for Science and Engineering	Determination of Crater Morphology and 3D Surface Roughness in Wire Electrical Discharge Turning of Inconel 825 (2020)	Jees George, Jose Mathew and R. Manu

## Book Chapters

1. George J., Ravi Chandan G., Manu R., Mathew J. (2020) Modeling of Areal Surface Roughness Using Soft-Computing-Based ANN and GA to Estimate Optimal Process Parameters During Wire Electrical Discharge Turning of Inconel 825. In: Shunmugam M. S., Kanthababu M. (eds) Advances in Unconventional Machining and Composites. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore
2. Manu A.V., Ladeesh V.G., Manu R. (2019) A Study of Parameters Affecting Cutting Forces in Minimum Quantity Lubrication-Assisted Cross-Peripheral Grinding of Alumina Ceramic. In: Shunmugam M. S., Kanthababu M. (eds) Advances in Forming, Machining and Automation. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore
3. Sowjanya N.S., Ladeesh V.G., Manu R., Mathew J. (2019) Comparative Study on the Performance of Different Drill Bits for Drilling CFRP. In: Shunmugam M. S., Kanthababu M. (eds) Advances in Forming, Machining and Automation. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore

## Conference Publications

Sl.No.	Name of the Conference	Title of the paper with Months & Date	Author (s) Name
1	IEEE Recent Advances in Intelligent Computational Systems (RAICS-2018)	Bio-modelling, Design, Analyses and Prototyping of Patient-specific Medical Implants Using CT Scan Data, December 06 - 08, 2018, Trivandrum	Jomy George, Bivin G Mathew, Manu R. and Deepak Lawrence K.
2	7th International & 28th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2018)	A study of Parameters Affecting Cutting force in Minimal Quantity Lubrication Assisted Cross Peripheral Grinding of Alumina Ceramic, 13 – 15, December 2018, Anna Univ., Chennai.	A V Manu, V G Ladeesh and R Manu
3	7th International & 28th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2018)	Comparative study on the performance of Different Drill Bits for Drilling CFRP, 13 – 15, December 2018, Anna Univ., Chennai.	Sowjanya N S, Ladeesh V G, Manu R and Jose Mathew
4	7th International & 28th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2018)	Modeling of Areal Surface Roughness using Soft Computing Based ANN AND GA to Estimate Optimal Process Parameters during Wire Electrical Discharge Turning of Inconel 825, 13 – 15, December 2018, Anna Univ., Chennai.	Jees George, Ravi Chandan G, Manu R and Jose Mathew
5	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-2017)	Effect of internal electrolyte flushing in Electrochemical Discharge Drilling (ECDD) of soda-lime-silica glass, “ International conference on precision, meso, micro and nano engineering  IIT Madras, 6 – 9 December 2017.	Ladeesh V. G, Nithin B, Manu R
6	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-2017)	Electrochemical Discharge Cross Peripheral Grinding (ECD-CPG) of borosilicate glass and its performance evaluation  IIT Madras, 6 – 9 December 2017.	Ladeesh V. G, Manu R,
7	International Conference on Precision, Meso, Micro and Nano	Surface characterization of fluidic channels machined on borosilicate glass using Grinding	Ladeesh V. G, Manu R,

	Engineering (COPEN-2017)	aided Electrochemical Discharge Machining (G-ECDM) and its performance study,” IIT Madras, 6 – 9 December 2017.	
8	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-2017)	Study of Mechanical Properties and Temperature Distribution of Dissimilar Friction Stir Welded Aluminium Alloys 1100 and 5052 IIT Madras, 6 – 9 December 2017.	M. Latheef, Renju Mohan, R.Manu
9	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-2017)	Ductile Regime Machining Of Alumina Using Cross Peripheral Grinding: Mathematical Modelling and Experimental Validation IIT Madras, 6 – 9 December 2017.	Manu A. V, Ladeesh V. G, Manu R
10	7th International Conference on Material Processing and Characterization	Performance study and mathematical modeling of grinding aided electro-chemical discharge drilling (G-ECDD) of soda- lime-silica glass. GRIET, Hyderabad, 17-19th March, 2017	Ladeesh V. G, Manu R
11	2nd International Conference on Mechanical, Manufacturing, Modeling and Mechatronics (IC4M 2017)	A mathematical model for surface roughness of fluidic channels produced by grinding aided electrochemical discharge machining (G-ECDM) University of Gent, Belgium, Feb 24-26, 2017	Ladeesh V. G, Manu R
12	6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)	Automatic Feature Recognition based Fixture Design for Prismatic Components College of Engineering., Pune, December 16-18, 2016	Remil George Thomas, R. Manu
13	6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)	Performance Evaluation of Grinding Aided Electrochemical Discharge Drilling (G-ECDD) of Alumina (Al <sub>2</sub> O <sub>3</sub> ) plates College of Engineering., Pune, December 16-18, 2016	Ladeesh V. G, Manu R
14	6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)	Development of Fluidic Channels Using Die Sinking Electrochemical Discharge Machining- A Performance Study and Mathematical Modelling College of Engineering., Pune, December 16-18, 2016	Ladeesh V. G, Manu R
15	6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)	Study on gas film stability in electrochemical discharge machining (ECDM) College of Engineering., Pune, December 16-18, 2016	Ladeesh V. G, Fenu O Kuttan, Manu R
16	International Conference on	Experimental Investigation on the	Ladeesh V.G, Manu R

	Mechanical, Manufacturing, Modeling And Mechatronics (IC4M 2016)	Performance of Grinding Assisted Electrochemical Discharge Drilling of Glass University of Malaya, Malaysia, 27-29th February 2016	
17	International Conference on Precision, Meso, Micro and Nano Engineering COPEN 9	Experimental Investigation on single grid grinding of aluminium based metal matrix composites IIT Bombay. 10-12th December 2015	Sayyid Mahmood Thangal K. V, Eby David, Manu R
18	International Conference on Precision, Meso, Micro and Nano Engineering COPEN 9	An Experimental Investigation on effect of Electrolyte Temperature on material removal rate in Grinding assisted Electrochemical Discharge Drilling (G-ECDD) IIT Bombay. 10-12th December 2015	Fenu K, Ladeesh V.G, Manu R
19	International Conference on Precision, Meso, Micro and Nano Engineering COPEN 9	Investigation on reduction in edge-chipping during Grinding assisted Electrochemical Discharge Drilling (G-ECDD): Finite element analysis and experimental validation IIT Bombay. 10-12th December 2015	Ladeesh V.G, Manu R
20	International Conference on Precision, Meso, Micro and Nano Engineering COPEN 9	An Investigation on the Effect of Machining Parameters on Grinding assisted Electrochemical Discharge Drilling (G-ECDD) Performance IIT Bombay. 10-12th December 2015	Ladeesh V.G, Manu R
21	5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014)	Modeling and Optimization of Surface Roughness In Surface Grinding of SiC Advanced Ceramic Material IIT Guwahati, Assam, India December 12th–14th, 2014	Binu Thomas, Eby David, Manu R
22	5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014)	Empirical Modeling of Cutting Forces in Ball End Milling using Experimental Design IIT Guwahati, Assam, India December 12th–14th, 2014	VenkateswaraSarma M.N.M., Manu. R
23	5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014)	Prediction of surface roughness of freeform surfaces using Artificial Neural Network IIT Guwahati, Assam, India December 12th–14th, 2014	Rajesh M., R Manu
24	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-8:2013)	An Analytical Model of Forces in Surface Grinding of SiC Particle Reinforced Aluminium Metal Matrix Composites NIT Calicut Kerala, December 13-15 2013	Prajinlal K.P., Kuriachen B., Eby David, and Manu R
25	Fourth International & 25 <sup>th</sup> All India Manufacturing Technology Design & Research Conference (AIMTDR 2012)	Investigations on the Effect of Process Parameters on Surface Roughness of Freeform Surfaces. Jadavpur University, kolkata December 14-16, 2012	Rajesh M. and R. Manu



# Author details

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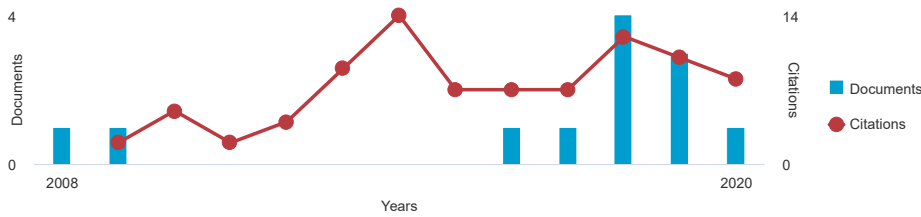
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Determination of Crater Morphology and 3D Surface Roughness in Wire Electrical Discharge Turning of Inconel 825	George, J., Mathew, J., Manu, R.	2020	Arabian Journal for Science and Engineering Article in Press	0

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Performance study and mathematical modeling of grinding aided electro-chemical discharge drilling (G-ECDD) of soda-lime-silica glass	Ladeesh, V.G., Manu, R.	2018	Materials Today: Proceedings 5(2), pp. 3618-3628	1
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