

Research Publications

Dr. B. K. Bhuyan

Pravabati Bhuyan, Satish Mishra and **Basanta Kumar Bhuyan**, Modeling of MRR due to Traveling Wire Electro-Chemical Spark Machining Process using FEM, International Journal for Scientific Research & Development 6 (3), 2018, 2271-2276. (**Impact Factor: 4.396, Published by IJSRD, India and ISSN: 2321-0613**)

2. Krishna Khattri, Gulshan Choudhary, **Basanta Kumar Bhuyan** and Ashish Solekar, A review on parametric analysis of Magnetic Abrasive Machining process, IOP Conf. Series: Materials Science and Engineering 330, 2018, 1-9. (**SCOPUS, Published by IOP Science, UK and ISSN: 1757-899X**)

3. **Basanta Kumar Bhuyan** and Vinod Yadava, Experimental modeling and multi response optimization of traveling wire electro-chemical spark machining (TW-ECSM) of Pyrex glass. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 228 (8), 2014, 902-916. (**SCI, Published by SAGE Publication U.K, Impact factor 0.770 and ISSN: 0954-4054**)

4. **Basanta Kumar Bhuyan** and Vinod Yadava, Experimental Study of Traveling Wire Electrochemical Spark Machining of Borosilicate Glass. Materials and Manufacturing Processes, 29 (3), 2014, 298-304. (**SCI, Published by Taylor & Francis, U.K, Impact factor 1.385 and ISSN: 1042-6914**)

5. **Basanta Kumar Bhuyan** and Vinod Yadava, Experimental Modeling and Multi-Objective Optimization of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) Process. Journal of Mechanical Science and Technology, 27 (8), 2013, 2467-2476. (**SCI, Published by Springer, Korea, Impact factor 0.616 and ISSN: 1738-494X**)

6. **Basanta Kumar Bhuyan** and Vinod Yadava, Modeling and Optimization of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) process. International Journal of Industrial and Systems Engineering, 18 (2), 2014, 139-158. (**Published by Inderscience Publication, USA and ISSN: 1748-5037**)

7. **Basanta Kumar Bhuyan** and Vinod Yadava, Simultaneous Optimization of Multiple Quality Characteristics in Traveling Wire Electrochemical Spark Machining (TW-ECSM) of Pyrex Glass. Asian Journal of Engineering and Applied Technology, 2 (2), 2013, 19-24. (**Published by The Research Publication, India and ISSN: 2249-068X**)

8. **Basanta Kumar Bhuyan** and Vinod Yadava, Experimental Investigations of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) of Borosilicate Glass. Asian Review of Mechanical Engineering, 1 (2), 2012, 24-29. (**Published by The Research Publication, India and ISSN: 2249-6289**)

Basanta Kumar Bhuyan and Vinod Yadava, Development of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) Setup. Journal of Engineering & Technology Education, 6 (2), 2012, 28-33. (**ISSN: 2229-631 X**)

Krishna Khattri, Gulshan Choudhary, **Basanta Kumar Bhuyan** and Ashish Solekar (2017), A review on parametric analysis of Magnetic Abrasive Machining process, Proceedings of the International Conference on Recent Advances in Materials, Mechanical and Civil Engineering (ICRAMMCE

2017), Marri Laxman Reddy Institute of Technology & Management, Hyderabad, Telangana, June 1-2, pp. 20-29. (ISBN: 978-3-03571173-8-3670-1)

11. **Basanta Kumar Bhuyan**, Pravabati Bhuyan and Rajesh Porwal (2017), Material Removal Rate and Kerf Width of Kevlar-Epoxy Composite Machined with Traveling Wire Electrochemical Spark Machining, Proceedings of the International Conference on Quality, Productivity, Reliability, Optimization and Modeling (ICQPROM 2017), FET, Manav Rachna International University, Faridabad, January, 5-7, pp. 125-131. (ISBN: 978-1-5090-6140-2).

12. Rajnish Saxena, Amitava Mandal, Somnath Chattopadhyaya and **Basanta Kumar Bhuyan** (2017), A Review on workpiece material, process parameter & optimization process of Electro Chemical Discharge Machining, Proceedings of the International Conference on Quality, Productivity, Reliability, Optimization and Modeling (ICQPROM 2017), FET, Manav Rachna International University, Faridabad, January, 5-7, pp. 182-186. (ISBN: 978-1-5090-6140-2).

13. Prabhat Kumar and **Basanta Kumar Bhuyan** (2017), Experimental Investigations of Slurry Abrasion Test Rig during Machining of ADC12 alloy, Proceedings of the International Conference on Quality, Productivity, Reliability, Optimization and Modeling (ICQPROM 2017), FET, Manav Rachna International University, Faridabad, January, 5-7, pp. 65-70. (ISBN: 978-1-5090-6140-2).

14. Vinay Kumar, Pawan Singh, Himanshu Yadav, Vishvendra Singh, Ashir Ahmed, **Basanta Kumar Bhuyan** and Manoj Nayak (2017), Some of the Experimental Investigations of Electrical Discharge Machining Process, Proceedings of the International Conference on Quality, Productivity, Reliability, Optimization and Modeling (ICQPROM 2017), FET, Manav Rachna International University, Faridabad, January, 5-7, pp. 14-17. (ISBN: 978-1-5090-6140-2)

15. **Basanta Kumar Bhuyan**, Vinod Yadava and Pravabati Bhuyan (2016), Development and Parametric Study of Traveling Wire Electro-chemical Spark Machining Process during Machining of Borosilicate Glass, Proceedings of the 6th International and 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), College Engineering Pune, Maharashtra, December, 16-18, pp.346-350. (ISBN: 978-93-86256-27-0).

16. Rajnish Saxena and **Basanta Kumar Bhuyan** (2016), Design and Experimental investigation of Electro-Chemical Discharge Machining (ECDM) of tiny Glass, Proceedings of the 2nd International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2016), ITS Engineering College, Greater Noida, India, April, 15-16, pp. 252-256.

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19. **Basanta Kumar Bhuyan** and Vinod Yadava (2013), Multi-Objective Optimization of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) of Borosilicate Glass, Proceedings of the

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21. **Basanta Kumar Bhuyan** and Vinod Yadava (2013), Optimization of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) process for multiple performance characteristics using Taguchi method and Grey relational analysis, Proceedings of the 3rd International Conference on Production and Industrial Engineering (CPIE-2013), Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, March, 29-31, pp. 993-998. (ISBN: 978-81-920453-1-3)

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27. Krishna Khattri, Gulshan Choudhary, Shashi Bhushan Prasad and **Basanta Kumar Bhuyan** (2017) Effect of Process Parameters on the Performance of Magnetic Abrasive Machining Process: An Overview, Proceedings of the National Conference on Emanations of Sustainable Technologies in Engineering, Science, Management and Education (ESTESME-2017), Manav Rachna University, Faridabad, April, 01, pp. 35-41.

28. Faraz Ahmed, Sumit Yadav, Avinash Sharma, Vishnu, Raman and **Basanta Kumar Bhuyan** (2014), Development of Electro-Chemical Spark Machining Setup, Proceedings of the National Conference on Paradigms in Mechanical Engineering (PME-2014), FET, Manav Rachna International University, Faridabad, December, 20, pp. 14-17.

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Dr. Debashis Parmanik

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