

List of Patents and Published Papers:

Patents:

1. An on line measurement of tool diameter in micro-ECM/micro-EDM, Status: patent filed, Patent application number: 1347/KOL/2009, dated: 16-11-2009.
2. A spindle assembly for micro-ECM/micro-EDM, Status: patent filed, Patent application number: 1356/KOL/2009, dated. 17-11-2009.

International Journal:

1. Excimer laser micro-machining of silicon in air and water medium, A. K. Das, P. Saha, Int. J. of Manufacturing Technology and Management , 2010 - Vol. 21, No.1/2 pp. 42 – 53.
2. Experimental investigation into micro-tool manufacturing with ECM process, A. K. Das, P. Saha, International Journal of Precision Technology, Inderscience Publishers (under review)

International Conference:

1. A comparative study of micro-machining of silicon in KOH solution by lasers of 1064nm wavelength with millisecond pulses and 248nm lasers with nanosecond pulses, A. K. Das, Saha P., Proceedings of the Global conference on Production and Industrial Engineering (CPIE-2007), 22-23rd March 2007, NIT Jalndhar.
2. Investigation on micro-welding of stainless steel with copper under pulsed Nd:YAG laser , P. Rout, S. K. Ghosh, A. K. Das, P. Saha, 5th International Conference on Precision, Meso, Micro and Nano Manufacturing (COPEN), College of Engineering , Trivendrum, 13-14th December, 2007.

3. Process modeling of chemical assisted excimer laser micro-machining of silicon, A. K. Das, P. Saha, Proc. of 2nd International and 23rd AIMTDR conference, IIT Madras, 15th-17th December-2008,. Pg-843-848.
4. Experimental investigation into micro-tool manufacturing with ECM process, A. K. Das, P. Saha, Proc. of 2nd International and 23rd AIMTDR conference, IIT Madras, Dec.15th-16th , 2008, pg-609-614.
5. Selective Laser sintering of tungsten carbide and cobalt powder mixture using pulsed Nd: YAG Laser, Ghosh S. K., Das A. K., Meena S. and Saha P, Proc. of 2nd International and 23rd AIMTDR conference, IIT Madras, Dec.15th-16th , 2008, pp. 257.
6. Inter-electrode gap control in micro-electrochemical machining operations- A case study through response surface methodology, A. K. Das, and P. Saha, Poster presentations of the 3rd International & 24th AIMTDR conference, December 2010, Visakhapatnam, India, pp. 185-190.
7. A vision system for online measurement of diameter of micro-tool in micro-electrochemical machine, Alok Kumar Das, Sambit Kumar Parida, Amit Rai Dixit, Partha Saha, C. S. Kumar, Proceedings of 24th International congress on Condition Monitoring and Diagnostic Engineering Management (COMADEM2011), University of Stavanger, Norway, 2011, PP. 1197-1204.
8. Robust Manufacturing Cell Design under Uncertain Product-Mix Demand , Amit Rai Dixit, P. K. Mishra, Alok Kumar Das, Proceedings of 24th International congress on Condition Monitoring and Diagnostic Engineering Management (COMADEM2011), University of Stavanger, Norway, 2011, PP. 1549- 1558.