

Mustafizur Rahman

List of Publications by Year in descending order

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56
papers

2,351
citations

201575

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g-index

57
all docs

57
docs citations

57
times ranked

1408
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on High-Speed Machining of Titanium Alloys. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2006, 49, 11-20.	0.3	189
2	A predictive model of the critical undeformed chip thickness for ductile-brittle transition in nano-machining of brittle materials. International Journal of Machine Tools and Manufacture, 2013, 64, 114-122.	6.2	150
3	Study on the nano-powder-mixed sinking and milling micro-EDM of WC-Co. International Journal of Advanced Manufacturing Technology, 2011, 53, 167-180.	1.5	120
4	Machinability study of tungsten carbide using PCD tools under ultrasonic elliptical vibration cutting. International Journal of Machine Tools and Manufacture, 2009, 49, 1089-1095.	6.2	109
5	Experimental study on ultrasonic elliptical vibration cutting of hardened steel using PCD tools. Journal of Materials Processing Technology, 2011, 211, 1701-1709.	3.1	108
6	Machinability of Titanium Alloys.. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2003, 46, 107-115.	0.3	102
7	A model to predict the critical undeformed chip thickness in vibration-assisted machining of brittle materials. International Journal of Machine Tools and Manufacture, 2013, 69, 57-66.	6.2	97
8	A comparative experimental investigation of deep-hole micro-EDM drilling capability for cemented carbide (WC-Co) against austenitic stainless steel (SUS 304). International Journal of Advanced Manufacturing Technology, 2010, 46, 1145-1160.	1.5	85
9	Analytical model to determine the critical feed per edge for ductile-brittle transition in milling process of brittle materials. International Journal of Machine Tools and Manufacture, 2011, 51, 170-181.	6.2	82
10	Ultraprecision ductile mode machining of glass by micromilling process. Journal of Manufacturing Processes, 2011, 13, 50-59.	2.8	79
11	Optimized tool path generation for fast tool servo diamond turning of micro-structured surfaces. International Journal of Advanced Manufacturing Technology, 2012, 63, 1137-1152.	1.5	74
12	Variation of surface generation mechanisms in ultra-precision machining due to relative tool sharpness (RTS) and material properties. International Journal of Machine Tools and Manufacture, 2017, 115, 15-28.	6.2	74
13	A review on the current research trends in ductile regime machining. International Journal of Advanced Manufacturing Technology, 2012, 63, 465-480.	1.5	69
14	An analytical force model for orthogonal elliptical vibration cutting technique. Journal of Manufacturing Processes, 2012, 14, 378-387.	2.8	68
15	A novel surface analytical model for cutting linearization error in fast tool/slow slide servo diamond turning. Precision Engineering, 2014, 38, 849-860.	1.8	61
16	An experimental study on micro-EDM in low-resistivity deionized water using short voltage pulses. International Journal of Advanced Manufacturing Technology, 2012, 58, 533-544.	1.5	60
17	A state-of-the-art review of ductile cutting of silicon wafers for semiconductor and microelectronics industries. International Journal of Advanced Manufacturing Technology, 2012, 63, 481-504.	1.5	57
18	An experimental approach to study the capability of end-milling for microcutting of glass. International Journal of Advanced Manufacturing Technology, 2011, 53, 1063-1073.	1.5	54

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19	Modeling of the effect of tool edge radius on surface generation in elliptical vibration cutting. International Journal of Advanced Manufacturing Technology, 2013, 65, 35-42.	1.5	49
20	A study on the effect of tool nose radius in ultrasonic elliptical vibration cutting of tungsten carbide. Journal of Materials Processing Technology, 2009, 209, 5830-5836.	3.1	48
21	Modeling of the Effect of Machining Parameters on Maximum Thickness of Cut in Ultrasonic Elliptical Vibration Cutting. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	43
22	A study of the diamond tool wear suppression mechanism in vibration-assisted machining of steel. Journal of Materials Processing Technology, 2014, 214, 496-506.	3.1	43
23	Transitions of micro-EDM/SEDCM/micro-ECM milling in low-resistivity deionized water. International Journal of Machine Tools and Manufacture, 2013, 69, 48-56.	6.2	42
24	Fabrication of different geometry cutting tools and their effect on the vertical micro-grinding of BK7 glass. International Journal of Advanced Manufacturing Technology, 2012, 61, 101-115.	1.5	41
25	Analytical model to determine the critical conditions for the modes of material removal in the milling process of brittle material. Journal of Materials Processing Technology, 2012, 212, 1925-1933.	3.1	39
26	Profile error compensation in high precision 3D micro-EDM milling. Precision Engineering, 2013, 37, 399-407.	1.8	32
27	The effect of tool edge radius on the chip formation behavior of tool-based micromachining. International Journal of Advanced Manufacturing Technology, 2010, 50, 961-977.	1.5	31
28	Investigation of the specific cutting energy and its effect in shearing dominant precision micro cutting. Journal of Materials Processing Technology, 2020, 283, 116688.	3.1	29
29	A study on the effect of tool-edge radius on critical machining characteristics in ultra-precision milling of tungsten carbide. International Journal of Advanced Manufacturing Technology, 2013, 67, 1257-1265.	1.5	25
30	Non-conventional Materials for Machine Tool Structures.. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2001, 44, 1-11.	0.3	24
31	EXPERIMENTAL INVESTIGATIONS INTO THE INFLUENCE OF MAJOR OPERATING PARAMETERS DURING MICRO-ELECTRO DISCHARGE DRILLING OF CEMENTED CARBIDE. Machining Science and Technology, 2012, 16, 131-156.	1.4	23
32	Efficient dressing of the wheel in ELID grinding by controllable voltage with force feed back. International Journal of Advanced Manufacturing Technology, 2010, 46, 123-130.	1.5	21
33	Analytical modeling of ductile-regime machining of tungsten carbide by endmilling. International Journal of Advanced Manufacturing Technology, 2011, 55, 53-64.	1.5	21
34	Influence of relative tool sharpness (RTS) on different ultra-precision machining regimes of Mg alloy. International Journal of Advanced Manufacturing Technology, 2018, 96, 3545-3563.	1.5	20
35	Chip perforation and "burnishing" like finishing of Al alloy in precision machining. Precision Engineering, 2017, 50, 393-409.	1.8	15
36	Characteristics of ductile mode chip formation in nanoscale cutting of brittle materials. International Journal of Abrasive Technology, 2007, 1, 37.	0.2	13

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37	Experimental study of wheel wear in electrolytic in-process dressing and grinding. International Journal of Advanced Manufacturing Technology, 2010, 50, 931-940.	1.5	13
38	Development of a postprocessing approach for three-dimensional micro-electrical discharge machining milling and application in simultaneous micro-electrical discharge/electrochemical milling. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 62-73.	1.5	13
39	An experimental investigation into the micro-electrodischarge machining behavior of p-type silicon. International Journal of Advanced Manufacturing Technology, 2011, 57, 617-637.	1.5	12
40	An experimental study on the machining characteristics in ductile-mode milling of BK-7 glass. International Journal of Advanced Manufacturing Technology, 2012, 60, 487-495.	1.5	12
41	Material perspective on the evolution of micro- and nano-scale cutting of metal alloys. Journal of Micromanufacturing, 2018, 1, 97-114.	0.6	11
42	Performance analysis of EDM electrode fabricated by localized electrochemical deposition for micro-machining of stainless steel. International Journal of Advanced Manufacturing Technology, 2010, 49, 975-986.	1.5	10
43	In-Process Truing for ELID (Electrolytic In-Process Dressing) Grinding by Pulsewidth Control. IEEE Transactions on Automation Science and Engineering, 2011, 8, 338-346.	3.4	9
44	An empirical study on the characterization of machined surface integrity by chip morphology in dry end-milling of titanium alloy. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 471-476.	1.5	9
45	Episodes of chip formation in micro-to-nanoscale cutting of Inconel 625. International Journal of Mechanical Sciences, 2021, 199, 106407.	3.6	9
46	Manufacturing of Al Alloy Microrods by Micro Cutting in a Micromachining Center. Micromachines, 2019, 10, 831.	1.4	8
47	Numerical and experimental study of contact behavior in the tool-based micromachining of steel. International Journal of Precision Engineering and Manufacturing, 2010, 11, 453-459.	1.1	7
48	Influence of cutting edge radius on small scale material removal at ultra-precise level. Procedia CIRP, 2018, 77, 658-661.	1.0	7
49	Design of a Fast Tool Servo Based Diamond Turning Machine for Fabricating Micro-Structured Surfaces. Key Engineering Materials, 2010, 443, 669-674.	0.4	6
50	A Model to Determine the Effect of Tool Diameter on the Critical Feed Rate for Ductile-Brittle Transition in Milling Process of Brittle Material. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	1.3	6
51	Effects of Cutting and Vibration Parameters on Transient Cutting Force in Elliptical Vibration Cutting. Communications in Computer and Information Science, 2012, , 483-490.	0.4	4
52	Cutting Force Analysis of on-Machine Fabricated PCD Tool during Glass Micro-Grinding. Advanced Materials Research, 0, 264-265, 1085-1090.	0.3	3
53	A Study on Surface Generation along Nominal Cutting Direction in Elliptical Vibration Cutting. Advanced Materials Research, 0, 314-316, 1851-1856.	0.3	1
54	A Novel Method for Profile Error Analysis of Freeform Surfaces in FTS/STS Diamond Turning. Key Engineering Materials, 0, 625, 101-107.	0.4	1

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55	An Overview of High-speed Machining of Titanium Alloys. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2005, 2005.1, 19-28.	0.0	1
56	Improvement of Accuracy in Micro-EDM of Tungsten Carbide Using Deionized Water. Key Engineering Materials, 0, 625, 576-580.	0.4	0