Chandra Nath

List of Publications by Year
in descending order

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20 papers	1,277 citations	471509 17 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	880 citing authors

#	Article	IF	Citations
1	Effect of machining parameters in ultrasonic vibration cutting. International Journal of Machine Tools and Manufacture, 2008, 48, 965-974.	13.4	268
2	Tool life predictions in milling using spindle power with the neural network technique. Journal of Manufacturing Processes, 2016, 22, 161-168.	5.9	159
3	Machinability study of tungsten carbide using PCD tools under ultrasonic elliptical vibration cutting. International Journal of Machine Tools and Manufacture, 2009, 49, 1089-1095.	13.4	109
4	Experimental study on ultrasonic elliptical vibration cutting of hardened steel using PCD tools. Journal of Materials Processing Technology, 2011, 211, 1701-1709.	6.3	108
5	Study of spindle power data with neural network for predicting real-time tool wear/breakage during inconel drilling. Journal of Manufacturing Systems, 2017, 43, 287-295.	13.9	91
6	Influence of the material removal mechanisms on hole integrity in ultrasonic machining of structural ceramics. Ultrasonics, 2012, 52, 605-613.	3.9	74
7	An analytical force model for orthogonal elliptical vibration cutting technique. Journal of Manufacturing Processes, 2012, 14, 378-387.	5.9	68
8	Design and evaluation of an atomization-based cutting fluid spray system in turning of titanium alloy. Journal of Manufacturing Processes, 2012, 14, 452-459.	5.9	53
9	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.	6.3	48
10	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, .	2.2	43
11	Integrated Tool Condition Monitoring Systems and Their Applications: A Comprehensive Review. Procedia Manufacturing, 2020, 48, 852-863.	1.9	42
12	On Cutting Temperature Measurement During Titanium Machining With an Atomization-Based Cutting Fluid Spray System. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	38
13	Finish turning of Ti-6Al-4V with the atomization-based cutting fluid (ACF) spray system. Journal of Manufacturing Processes, 2017, 28, 464-471.	5.9	34
14	Machinability study and process optimization in face milling of some super alloys with indexable copy face mill inserts. Journal of Manufacturing Processes, 2015, 20, 88-97.	5.9	32
15	Effect of fluid concentration in titanium machining with an atomization-based cutting fluid (ACF) spray system. Journal of Manufacturing Processes, 2013, 15, 419-425.	5.9	27
16	Study of Droplet Spray Behavior of an Atomization-Based Cutting Fluid Spray System for Machining Titanium Alloys. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	2.2	24
17	Enhancing Spindle Power Data Application with Neural Network for Real-time Tool Wear/Breakage Prediction During Inconel Drilling. Procedia Manufacturing, 2016, 5, 1-14.	1.9	24
18	Characterization of Fluid Film Produced by an Atomization-Based Cutting Fluid Spray System During Machining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	2.2	17

#	Article	IF	Citations
19	Obstruction-type Chip Breakers for Controllable Chips and Improved Cooling/Lubrication During Drilling â€“ A Feasibility Study. Procedia Manufacturing, 2016, 5, 375-385.	1.9	16
20	Effect of In-Built Anisotropic and Heterogeneous Material Properties on Machinability in Drilling of AISI 304 Stainless Steel. Journal of Manufacturing Processes, 2020, 59, 122-130.	5.9	2