

Xinyu Liu

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

996
citations

1040056

9
h-index

1058476

14
g-index

22
all docs

22
docs citations

22
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mechanics of Machining at the Microscale: Assessment of the Current State of the Science. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2004, 126, 666-678.	2.2	346
2	Polypyrrole-interface-functionalized nano-magnetite epoxy nanocomposites as electromagnetic wave absorbers with enhanced flame retardancy. Journal of Materials Chemistry C, 2017, 5, 5334-5344.	5.5	242
3	Investigation of the Dynamics of Microend Millingâ€™Part I: Model Development. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 893-900.	2.2	114
4	Electromagnetic Field Absorbing Polypropylene Nanocomposites with Tuned Permittivity and Permeability by Nanoiron and Carbon Nanotubes. Journal of Physical Chemistry C, 2014, 118, 24784-24796.	3.1	86
5	Model-Based Analysis of the Surface Generation in Microendmillingâ€™Part I: Model Development. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 453-460.	2.2	49
6	Cutting Mechanisms and Their Influence on Dynamic Forces, Vibrations and Stability in Micro-Endmilling. , 2004, , 583.		38
7	Model-Based Analysis of the Surface Generation in Microendmillingâ€™Part II: Experimental Validation and Analysis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 461-469.	2.2	34
8	Investigations on Mechanics-Based Process Planning of Micro-End Milling in Machining Mold Cavities. Materials and Manufacturing Processes, 2009, 24, 1274-1281.	4.7	32
9	Heavy duty piezoresistivity induced strain sensing natural rubber/carbon black nanocomposites reinforced with different carbon nanofillers. Materials Research Express, 2014, 1, 035029.	1.6	16
10	In situ metrology system for micro-milling machine. Journal of Manufacturing Systems, 2012, 31, 15-21.	13.9	11
11	Micromilling Process Planning and Modeling for Micromold Manufacturing. , 2007, , 759.		6
12	Development of a fiber optical occlusion based non-contact automatic tool setter for a micro-milling machine. Robotics and Computer-Integrated Manufacturing, 2017, 43, 12-17.	9.9	6
13	A Stability Solution for the Axial Contour-Turning Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2002, 124, 581-587.	2.2	5
14	Engineering Design and Manufacturing Education through Research Experience for High School Teachers. Procedia Manufacturing, 2018, 26, 1340-1348.	1.9	4
15	Physical Modeling on Hydraulic Performance of Rectangular Bridge Deck Drains. Water (Switzerland), 2016, 8, 67.	2.7	2
16	Experimental investigation of the tool wear in micro-milling of stainless steel 316. International Journal of Mechatronics and Manufacturing Systems, 2016, 9, 122.	0.1	2
17	Multi-Objective Optimization for the Micro-Milling Process With Adaptive Data Modeling. , 2011, , .		1
18	Experimental Investigation of the Tool Wear and Tool Life in Micro Hard Milling. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
19	Experimental Investigation of Micro-Machinability of Nano-TiC Reinforced Inconel Fabricated by Direct Metal Laser Melting. , 2015, , .		1
20	Experimental Investigation of Micro-Milling Accuracy Using On-Machine Measurement System. , 2010, , .		0
21	Physical Modeling Study on Hydraulic Performance of Rectangular Deck Drains. , 2012, , .		0
22	Development of a Mobile App for Learning System Dynamics. , 2013, , .		0