

Jeffrey Badger

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

216
citations

1163117

8
h-index

1199594

12
g-index

16
all docs

16
docs citations

16
times ranked

151
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of wheel eccentricity and run-out on grinding forces, waviness, wheel wear and chatter. International Journal of Machine Tools and Manufacture, 2011, 51, 766-774.	13.4	36
2	Acoustic emission in dressing of grinding wheels: AE intensity, dressing energy, and quantification of dressing sharpness and increase in diamond wear-flat size. International Journal of Machine Tools and Manufacture, 2018, 125, 11-19.	13.4	36
3	Geometric, kinematical and thermal analyses of non-round cylindrical grinding. Journal of Materials Processing Technology, 2014, 214, 818-827.	6.3	27
4	Cycle optimization in cam-lobe grinding for high productivity. CIRP Annals - Manufacturing Technology, 2014, 63, 333-336.	3.6	21
5	On geometry and kinematics of abrasive processes: The theory of aggressiveness. International Journal of Machine Tools and Manufacture, 2020, 154, 103567.	13.4	19
6	Optimization of peripheral non-round cylindrical grinding via an adaptable constant-temperature process. CIRP Annals - Manufacturing Technology, 2013, 62, 347-350.	3.6	16
7	Grinding of sub-micron-grade carbide: Contact and wear mechanisms, loading, conditioning, scrubbing and resin-bond degradation. CIRP Annals - Manufacturing Technology, 2015, 64, 341-344.	3.6	15
8	Temperature-based method for determination of feed increments in crankshaft grinding. Journal of Materials Processing Technology, 2018, 259, 228-234.	6.3	12
9	Big-and-dull or small-and-sharp: A comparison of specific energy, wheel wear, surface-generation mechanisms and surface characteristics when grinding with Al ₂ O ₃ and CBN to achieve a given surface roughness. Journal of Materials Processing Technology, 2021, 288, 116825.	6.3	9
10	Truing of diamond wheels – Geometry, kinematics and removal mechanisms. CIRP Annals - Manufacturing Technology, 2018, 67, 345-348.	3.6	6
11	Particularities of Grinding High Speed Steel Punching Tools. Advanced Materials Research, 0, 325, 177-182.	0.3	5
12	Grinding of Cermets with Cup-Wheels. Materials Science Forum, 0, 874, 115-123.	0.3	5
13	The use of computational fluid dynamics in the analysis of fluid flow and thermal aspects in grinding. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 2103-2111.	2.4	5
14	Application of the dimensionless Aggressiveness number in abrasive processes. Procedia CIRP, 2021, 102, 361-368.	1.9	3
15	Thermal Aspects and Grinding Aggressiveness in View of Optimizing High-Performance Grinding Operations in the Automotive Industry. , 2014, , .		1
16	The Use of Power Monitoring and Electron Microscopy in Evaluating the Performance and Fracture Characteristics of Abrasive Grains. Advanced Materials Research, 0, 1136, 612-619.	0.3	0