Hossam Kishawy

List of Publications by Year
in descending order

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39 papers	1,344 citations	430874 18 h-index	345221 36 g-index
39 all docs	39 docs citations	39 times ranked	919 citing authors

#	Article	IF	Citations
1	Effects of nano-cutting fluids on tool performance and chip morphology during machining Inconel 718. International Journal of Advanced Manufacturing Technology, 2018, 96, 3449-3458.	3.0	168
2	Towards sustainability assessment of machining processes. Journal of Cleaner Production, 2018, 170, 694-703.	9.3	119
3	Surface Integrity of Die Material in High Speed Hard Machining, Part 1: Micrographical Analysis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2000, 122, 620-631.	2.2	111
4	Application of acoustic emissions in machining processes: analysis and critical review. International Journal of Advanced Manufacturing Technology, 2018, 98, 1391-1407.	3.0	74
5	Surface Integrity of Die Material in High Speed Hard Machining, Part 2: Microhardness Variations and Residual Stresses. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2000, 122, 632-641.	2.2	73
6	On machining of Ti-6Al-4V using multi-walled carbon nanotubes-based nano-fluid under minimum quantity lubrication. International Journal of Advanced Manufacturing Technology, 2018, 97, 1593-1603.	3.0	71
7	On the surface quality of additive manufactured parts. International Journal of Advanced Manufacturing Technology, 2017, 89, 1969-1974.	3.0	63
8	Analysis of tool-particle interactions during cutting process of metal matrix composites. International Journal of Advanced Manufacturing Technology, 2016, 82, 143-152.	3.0	58
9	Hybrid nano-fluid-minimum quantity lubrication strategy for machining austempered ductile iron (ADI). International Journal on Interactive Design and Manufacturing, 2018, 12, 1273-1281.	2.2	50
10	Flank Wear Progression During Machining Metal Matrix Composites. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 787-791.	2.2	48
11	A model for machining with nano-additives based minimum quantity lubrication. International Journal of Advanced Manufacturing Technology, 2019, 102, 2013-2028.	3.0	46
12	Modeling of tool wear during hard turning with self-propelled rotary tools. International Journal of Mechanical Sciences, 2011, 53, 1015-1021.	6.7	45
13	An energy based analysis of broaching operation: Cutting forces and resultant surface integrity. CIRP Annals - Manufacturing Technology, 2012, 61, 107-110.	3.6	42
14	On machining modeling of metal matrix composites: A novel comprehensive constitutive equation. International Journal of Mechanical Sciences, 2016, 107, 235-241.	6.7	40
15	Coolant strategy influence on tool life and surface roughness when machining ADI. International Journal of Advanced Manufacturing Technology, 2018, 94, 3875-3887.	3.0	40
16	On toolâ€“workpiece interactions during machining metal matrix composites: investigation of the effect of cutting speed. International Journal of Advanced Manufacturing Technology, 2016, 84, 2423-2435.	3.0	35
17	AN EXPERIMENTAL EVALUATION OF CUTTING TEMPERATURES DURING HIGH SPEED MACHINING OF HARDENED D2 TOOL STEEL. Machining Science and Technology, 2002, 6, 67-79.	2.5	27
18	An efficient methodology for slicing NURBS surfaces using multi-step methods. International Journal of Advanced Manufacturing Technology, 2018, 95, 3111-3125.	3.0	26

#	Article	IF	Citations
19	Role of energy consumption, cutting tool and workpiece materials towards environmentally conscious machining: A comprehensive review. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 335-354.	2.4	19
20	PREDICTION OF CUTTING FORCES IN BROACHING OPERATION. Journal of Advanced Manufacturing Systems, 2013, 12, 1-14.	1.0	18
21	Effect of Adaptive Slicing on Surface Integrity in Additive Manufacturing. , 2014, , .		17
22	Machining metal matrix composites: novel analytical force model. International Journal of Advanced Manufacturing Technology, 2016, 83, 233-241.	3.0	17
23	Adaptive variable layer thickness and perimetral offset planning for layer-based additive manufacturing processes. International Journal of Computer Integrated Manufacturing, 2021, 34, 964-974.	4.6	16
24	Mechanistic modelling for cutting with serrated end mills â€“ a parametric representation approach. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2011, 225, 1019-1032.	2.4	15
25	On modeling the deformations and tool-workpiece interactions during machining metal matrix composites. International Journal of Advanced Manufacturing Technology, 2017, 91, 1507-1516.	3.0	14
26	On modeling tool performance while machining aluminum-based metal matrix composites. International Journal of Advanced Manufacturing Technology, 2017, 92, 3519-3530.	3.0	13
27	Machining of novel AA7075 foams containing thin-walled ceramic bubbles. Materials and Manufacturing Processes, 2020, 35, 1812-1821.	4.7	12
28	On the Optimized Design of Broaching Tools. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	2.2	11
29	Intelligent Process Planning for Additive Manufacturing. IFAC-PapersOnLine, 2019, 52, 218-223.	0.9	11
30	On the machinability of die/mold D2 steel material. International Journal of Advanced Manufacturing Technology, 2016, 85, 735-740.	3.0	10
31	A Physics-Based Model for Metal Matrix Composites Deformation During Machining: A Modified Constitutive Equation. Journal of Engineering Materials and Technology, Transactions of the ASME, 2017, 139, .	1.4	8
32	A NUMERICAL INVESTIGATION OF THE CHIP TOOL INTERFACE IN ORTHOGONAL MACHINING. Machining Science and Technology, 2002, 6, 397-414.	2.5	6
33	Tool Performance Optimization While Machining Aluminium-Based Metal Matrix Composite. Metals, 2020, 10, 835.	2.3	5
34	Prediction of critical thrust force generated at the onset of delamination in machining carbon reinforced composites. International Journal of Advanced Manufacturing Technology, 2019, 103, 2751-2759.	3.0	4
35	A novel approach towards prediction of subsurface damage during machining metal matrix composites. International Journal of Advanced Manufacturing Technology, 2020, 106, 3515-3521.	3.0	4
36	Evaluation of Self-Propelled Rotary Tool in the Machining of Hardened Steel Using Finite Element Models. Materials, 2020, 13, 5092.	2.9	3

#	Article	IF	Citations
37	Hole quality assessment in peck drilling. , 2012, , .		2
38	Effect of Direct Slicing on Precision Additive Manufacturing. IFAC-PapersOnLine, 2020, 53, 11982-11987.	0.9	2
39	Finite element modeling of sub-surface damage while machining aluminum based metal matrix composites. Advances in Mechanical Engineering, 2021, 13, 168781402110704.	1.6	1