

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
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39
all docs

39
docs citations

39
times ranked

919
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive variable layer thickness and perimetral offset planning for layer-based additive manufacturing processes. <i>International Journal of Computer Integrated Manufacturing</i> , 2021, 34, 964-974.	4.6	16
2	Finite element modeling of sub-surface damage while machining aluminum based metal matrix composites. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402110704.	1.6	1
3	Role of energy consumption, cutting tool and workpiece materials towards environmentally conscious machining: A comprehensive review. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020, 234, 335-354.	2.4	19
4	A novel approach towards prediction of subsurface damage during machining metal matrix composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 3515-3521.	3.0	4
5	Evaluation of Self-Propelled Rotary Tool in the Machining of Hardened Steel Using Finite Element Models. <i>Materials</i> , 2020, 13, 5092.	2.9	3
6	Machining of novel AA7075 foams containing thin-walled ceramic bubbles. <i>Materials and Manufacturing Processes</i> , 2020, 35, 1812-1821.	4.7	12
7	Tool Performance Optimization While Machining Aluminium-Based Metal Matrix Composite. <i>Metals</i> , 2020, 10, 835.	2.3	5
8	Effect of Direct Slicing on Precision Additive Manufacturing. <i>IFAC-PapersOnLine</i> , 2020, 53, 11982-11987.	0.9	2
9	A model for machining with nano-additives based minimum quantity lubrication. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 2013-2028.	3.0	46
10	Prediction of critical thrust force generated at the onset of delamination in machining carbon reinforced composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 2751-2759.	3.0	4
11	Intelligent Process Planning for Additive Manufacturing. <i>IFAC-PapersOnLine</i> , 2019, 52, 218-223.	0.9	11
12	Effects of nano-cutting fluids on tool performance and chip morphology during machining Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 3449-3458.	3.0	168
13	An efficient methodology for slicing NURBS surfaces using multi-step methods. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 3111-3125.	3.0	26
14	On machining of Ti-6Al-4V using multi-walled carbon nanotubes-based nano-fluid under minimum quantity lubrication. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 1593-1603.	3.0	71
15	Coolant strategy influence on tool life and surface roughness when machining ADI. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 3875-3887.	3.0	40
16	Towards sustainability assessment of machining processes. <i>Journal of Cleaner Production</i> , 2018, 170, 694-703.	9.3	119
17	Hybrid nano-fluid-minimum quantity lubrication strategy for machining austempered ductile iron (ADI). <i>International Journal on Interactive Design and Manufacturing</i> , 2018, 12, 1273-1281.	2.2	50
18	Application of acoustic emissions in machining processes: analysis and critical review. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 1391-1407.	3.0	74

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	On modeling tool performance while machining aluminum-based metal matrix composites. International Journal of Advanced Manufacturing Technology, 2017, 92, 3519-3530.	3.0	13
22	On the surface quality of additive manufactured parts. International Journal of Advanced Manufacturing Technology, 2017, 89, 1969-1974.	3.0	63
23	On the machinability of die/mold D2 steel material. International Journal of Advanced Manufacturing Technology, 2016, 85, 735-740.	3.0	10
24	On machining modeling of metal matrix composites: A novel comprehensive constitutive equation. International Journal of Mechanical Sciences, 2016, 107, 235-241.	6.7	40
25	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
26	On tool-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
27	Machining metal matrix composites: novel analytical force model. International Journal of Advanced Manufacturing Technology, 2016, 83, 233-241.	3.0	17
28	On the Optimized Design of Broaching Tools. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	2.2	11
29	Effect of Adaptive Slicing on Surface Integrity in Additive Manufacturing. , 2014, , .		17
30	PREDICTION OF CUTTING FORCES IN BROACHING OPERATION. Journal of Advanced Manufacturing Systems, 2013, 12, 1-14.	1.0	18
31	Hole quality assessment in peck drilling. , 2012, , .		2
32	An energy based analysis of broaching operation: Cutting forces and resultant surface integrity. CIRP Annals - Manufacturing Technology, 2012, 61, 107-110.	3.6	42
33	Modeling of tool wear during hard turning with self-propelled rotary tools. International Journal of Mechanical Sciences, 2011, 53, 1015-1021.	6.7	45
34	Mechanistic modelling for cutting with serrated end mills – a parametric representation approach. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2011, 225, 1019-1032.	2.4	15
35	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
36	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

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37	A NUMERICAL INVESTIGATION OF THE CHIP TOOL INTERFACE IN ORTHOGONAL MACHINING. <i>Machining Science and Technology</i> , 2002, 6, 397-414.	2.5	6
38	Surface Integrity of Die Material in High Speed Hard Machining, Part 1: Micrographical Analysis. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2000, 122, 620-631.	2.2	111
39	Surface Integrity of Die Material in High Speed Hard Machining, Part 2: Microhardness Variations and Residual Stresses. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2000, 122, 632-641.	2.2	73