Yallese Mohamed Athmane

List of Publications by Year
in descending order

70	2,935	172457	182427
papers	citations	29 h-index	51 g-index

71	71	71	1350
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Statistical analysis of surface roughness and cutting forces using response surface methodology in hard turning of AISI 52100 bearing steel with CBN tool. International Journal of Refractory Metals and Hard Materials, 2010, 28, 349-361.	3.8	306
2	Analysis of surface roughness and cutting force components in hard turning with CBN tool: Prediction model and cutting conditions optimization. Measurement: Journal of the International Measurement Confederation, 2012, 45, 344-353.	5.0	255
3	On the prediction of surface roughness in the hard turning based on cutting parameters and tool vibrations. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1671-1681.	5.0	188
4	Hard machining of hardened bearing steel using cubic boron nitride tool. Journal of Materials Processing Technology, 2009, 209, 1092-1104.	6.3	177
5	Performance of coated and uncoated mixed ceramic tools in hard turning process. Measurement: Journal of the International Measurement Confederation, 2016, 82, 1-18.	5.0	109
6	Comparative assessment of wiper and conventional ceramic tools on surface roughness in hard turning AISI 4140 steel. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3041-3056.	5.0	106
7	Predictive modeling and multi-response optimization of technological parameters in turning of Polyoxymethylene polymer (POM C) using RSM and desirability function. Measurement: Journal of the International Measurement Confederation, 2017, 95, 99-115.	5.0	89
8	Analysis and optimization of hard turning operation using cubic boron nitride tool. International Journal of Refractory Metals and Hard Materials, 2014, 45, 160-178.	3.8	78
9	Surface roughness and cutting forces modeling for optimization of machining condition in finish hard turning of AISI 52100 steel. Journal of Mechanical Science and Technology, 2012, 26, 4105-4114.	1.5	77
10	Investigation and modeling of cutting forces and surface roughness when hard turning of AISI 52100 steel with mixed ceramic tool: cutting conditions optimization. International Journal of Advanced Manufacturing Technology, 2015, 77, 1387-1399.	3.0	75
11	Machinability investigation in hard turning of AISI D3 cold work steel with ceramic tool using response surface methodology. International Journal of Advanced Manufacturing Technology, 2014, 73, 1775-1788.	3.0	73
12	Investigation of the performance of the MQL, dry, and wet turning by response surface methodology (RSM) and artificial neural network (ANN). International Journal of Advanced Manufacturing Technology, 2017, 93, 2485-2504.	3.0	67
13	Investigation, modeling, and optimization of cutting parameters in turning of gray cast iron using coated and uncoated silicon nitride ceramic tools. Based on ANN, RSM, and GA optimization. International Journal of Advanced Manufacturing Technology, 2019, 101, 523-548.	3.0	66
14	Modeling and multi-objective optimization for minimizing surface roughness, cutting force, and power, and maximizing productivity for tempered stainless steel AISI 420 in turning operations. International Journal of Advanced Manufacturing Technology, 2019, 102, 135-157.	3.0	65
15	EXPERIMENTAL INVESTIGATION AND PERFORMANCE ANALYSES OF CBN INSERT IN HARD TURNING OF COLD WORK TOOL STEEL (D3). Machining Science and Technology, 2010, 14, 471-501.	2.5	64
16	Modeling and optimization of hard turning of X38CrMoV5-1 steel with CBN tool: Machining parameters effects on flank wear and surface roughness. Journal of Mechanical Science and Technology, 2011, 25, 2843-2851.	1.5	64
17	Prediction of surface roughness and cutting forces using RSM, ANN, and NSGA-II in finish turning of AISI 4140 hardened steel with mixed ceramic tool. International Journal of Advanced Manufacturing Technology, 2018, 97, 1931-1949.	3.0	57
18	Prediction of machining performance using RSM and ANN models in hard turning of martensitic stainless steel AISI 420. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 4439-4462.	2.1	57

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19	Modeling and optimization in dry face milling of X2CrNi18-9 austenitic stainless steel using RMS and desirability approach. Measurement: Journal of the International Measurement Confederation, 2017, 107, 53-67.	5.0	56
20	Modeling and optimization of turning process parameters during the cutting of polymer (POM C) based on RSM, ANN, and DF methods. International Journal of Advanced Manufacturing Technology, 2017, 91, 2267-2290.	3.0	49
21	Design optimization for minimum technological parameters when dry turning of AISI D3 steel using Taguchi method. International Journal of Advanced Manufacturing Technology, 2017, 89, 1915-1934.	3.0	49
22	Mathematical modeling for turning on AISI 420 stainless steel using surface response methodology. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 45-61.	2.4	47
23	Simultaneous optimization of surface roughness and material removal rate for turning of X20Cr13 stainless steel. International Journal of Advanced Manufacturing Technology, 2014, 74, 879-891.	3.0	44
24	The effects of cutting conditions on mixed ceramic and cubic boron nitride tool wear and on surface roughness during machining of X200Cr12 steel (60 HRC). Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2005, 219, 35-55.	2.4	43
25	Application of response surface methodology for determining cutting force model in turning hardened AISI H11 hot work tool steel. Sadhana - Academy Proceedings in Engineering Sciences, 2011, 36, 109-123.	1.3	43
26	On the Modeling of Surface Roughness and Cutting Force when Turning of Inconel 718 Using Artificial Neural Network and Response Surface Methodology: Accuracy and Benefit. Periodica Polytechnica, Mechanical Engineering, 2017, 61, 1-11.	1.4	38
27	On the application of response surface methodology for predicting and optimizing surface roughness and cutting forces in hard turning by PVD coated insert. International Journal of Industrial Engineering Computations, 2015, 6, 267-284.	0.7	37
28	Experimental investigation of cutting parameters influence on surface roughness and cutting forces in hard turning of X38CrMoV5-1 with CBN tool. Sadhana - Academy Proceedings in Engineering Sciences, 2013, 38, 429-445.	1.3	34
29	Comparative assessment of two ceramic cutting tools on surface roughness in hard turning of AISI H11 steel: including 2D and 3D surface topography. International Journal of Advanced Manufacturing Technology, 2017, 89, 333-354.	3.0	34
30	Cutting Conditions Modeling and Optimization in Hard Turning Using RSM, ANN and Desirability Function. Journal of Failure Analysis and Prevention, 2018, 18, 1017-1033.	0.9	34
31	Design optimization of cutting parameters when turning hardened AISI H11 steel (50 HRC) with CBN7020 tools. International Journal of Advanced Manufacturing Technology, 2017, 89, 803-820.	3.0	30
32	Modeling and optimization of the turning parameters of cobalt alloy (Stellite 6) based on RSM and desirability function. International Journal of Advanced Manufacturing Technology, 2019, 100, 2945-2968.	3.0	30
33	Performance comparison of wiper and conventional ceramic inserts in hard turning of AISI 4140 steel: analysis of machining forces and flank wear. International Journal of Advanced Manufacturing Technology, 2016, 87, 2221-2244.	3.0	29
34	Comparative assessment of cooling conditions, including MQL technology on machining factors in an environmentally friendly approach. International Journal of Advanced Manufacturing Technology, 2017, 91, 3079-3094.	3.0	27
35	Effects of coating material and cutting parameters on the surface roughness and cutting forces in dry turning of AISI 52100 steel. Structural Engineering and Mechanics, 2017, 61, 519-526.	1.0	25
36	Statistical analysis of AISI304 austenitic stainless steel machining using Ti(C, N)/Al2O3/TiN CVD coated carbide tool. International Journal of Industrial Engineering Computations, 2015, 6, 539-552.	0.7	19

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37	Optimization of machining parameters in turning of Inconel 718 Nickel-base super alloy. Mechanics and Industry, 2020, 21, 203.	1.3	18
38	Cutting parameters effects on the machining of two high density polyethylene pipes resins. Mechanics and Industry, 2012, 13, 307-316.	1.3	17
39	Usinage de l'acier 100Cr6 trempÃ© par un outil en nitrure de bore cubique. Mecanique Et Industries, 2004, 5, 355-368.	0.2	16
40	Multi-objective optimization of surface roughness, cutting forces, productivity and Power consumption when turning of Inconel 718. International Journal of Industrial Engineering Computations, 2016, , 111-134.	0.7	16
41	Machining of tough polyethylene pipe material: surface roughness and cutting temperature optimization. International Journal of Advanced Manufacturing Technology, 2017, 92, 2231-2245.	3.0	16
42	Machining Optimization of HDPE Pipe Using the Taguchi Method and Grey Relational Analysis. International Polymer Processing, 2016, 31, 491-502.	0.5	13
43	Surface roughness evaluation of various cutting materials in hard turning of AISI H11. International Journal of Industrial Engineering Computations, 2016, , 339-352.	0.7	12
44	Estimation and optimization of flank wear and tool lifespan in finish turning of AISI 304 stainless steel using desirability function approach. International Journal of Industrial Engineering Computations, 2018, , 349-368.	0.7	12
45	Comparison on various machinability aspects between mixed and reinforced ceramics when machining hardened steels. Mechanics and Industry, 2019, 20, 109.	1.3	12
46	Simultaneous improvement of surface quality and productivity using grey relational analysis based Taguchi design for turning couple (AISI D3 steel/ mixed ceramic tool (Al2O3 + TiC)). International Journal of Industrial Engineering Computations, 2018, , 173-194.	0.7	11
47	Machinability study and ANN-MOALO-based multi-response optimization during Eco-Friendly machining of EN-GJL-250 cast iron. International Journal of Advanced Manufacturing Technology, 2021, 117, 1179-1192.	3.0	11
48	Tool life evaluation of cutting materials in hard turning of AISI H11. Estonian Journal of Engineering, 2013, 19, 143.	0.4	9
49	Modeling and multi-objective optimization of surface roughness and productivity in dry turning of AISI 52100 steel using (TiCN-TiN) coating cermet tools. International Journal of Industrial Engineering Computations, 2017, , 71-84.	0.7	9
50	Selection of bearing health indicator by GRA for ANFIS-based forecasting of remaining useful life. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	9
51	RMS-based optimisation of surface roughness when turning AISI 420 stainless steel. International Journal of Materials and Product Technology, 2014, 49, 224.	0.2	8
52	Comparison between mixed ceramic and reinforced ceramic tools in terms of cutting force components modelling and optimization when machining hardened steel AISI 4140 (60 HRC). Mechanics and Industry, 2015, 16, 609.	1.3	8
53	A comparative study on performance of cermet and coated carbide inserts in straight turning AISI 316L austenitic stainless steel. International Journal of Advanced Manufacturing Technology, 2021, 112, 241-260.	3.0	8
54	Machining quality of high speed helical milling of carbon fiber reinforced plastics. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 1049-1066.	2.1	8

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55	Multi-response optimization using artificial neural network-based GWO algorithm for high machining performance with minimum quantity lubrication. International Journal of Advanced Manufacturing Technology, 2021, 116, 3765-3778.	3.0	8
56	Dry turning optimization of austenitic stainless steel 316L based on Taguchi and TOPSIS approaches. Materiaux Et Techniques, 2020, 108, 401.	0.9	8
57	Evaluation of: MOSSA, MOALO, MOVO and MOGWO algorithms in green machining to enhance the turning performances of X210Cr12 steel. International Journal of Advanced Manufacturing Technology, 2022, 120, 2135-2150.	3.0	7
58	Evaluation of the cutting performance of PVD, CVD and MTCVD carbide inserts in dry turning of AISI 4140 steel using RSM-based NAMDE optimization. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	1.6	7
59	Analysis of technological parameters through response surface methodology in machining hardened X38CrMoV5-1 using whisker ceramic tool (Al2O3+SiC). Estonian Journal of Engineering, 2012, 18, 26.	0.4	6
60	Modeling and optimization of surface roughness and productivity thru RSM in face milling of AISI 1040 steel using coated carbide inserts. International Journal of Industrial Engineering Computations, 2017, , 493-512.	0.7	6
61	Tool wear, 3D surface topography, and comparative analysis of GRA, MOORA, DEAR, and WASPAS optimization techniques in turning of cold work tool steel. International Journal of Advanced Manufacturing Technology, 2022, 121, 701-721.	3.0	6
62	Parametric study and multi-criteria optimization during turning of X210Cr12 steel using the desirability function and hybrid Taguchi-WASPAS method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 8401-8420.	2.1	6
63	Application of response surface methodology in describing the performance of mixed ceramic tool when turning AISI 4140 steel. Mechanics and Industry, 2016, 17, 309.	1.3	5
64	A new method for evaluation nominal coefficient of friction and frictional forces in turning and inserts characterization using cutting forces profiles. Engineering Solid Mechanics, 2016, , 1-10.	1.2	4
65	Taguchi Design of Experiments for Optimization and Modeling of Surface Roughness When Dry Turning X210Cr12 Steel. Lecture Notes in Mechanical Engineering, 2017, , 275-288.	0.4	4
66	Coated CBN cutting tool performance in green turning of gray cast iron EN-GJL-250: modeling and optimization. International Journal of Advanced Manufacturing Technology, 2021, 113, 3643.	3.0	4
67	Statistical Study and Multi-Response Optimization of Cutting Parameters for Dry Turning Stainless Steel AISI 316L Using Cermet Tool. Advanced Engineering Forum, 0, 36, 28-46.	0.3	3
68	Investigation and Modeling of Surface Roughness of Hard Turned AISI 52100 Steel: Tool Vibration Consideration. Applied Condition Monitoring, 2015, , 419-431.	0.4	2
69	Optimisation of Machining Parameters in Hard Turning by Desirability Function Analysis Using Response Surface Methodology. Lecture Notes in Mechanical Engineering, 2015, , 73-81.	0.4	2
70	Tool Life Evaluation of Cutting Materials in Turning of X20Cr13 Stainless Steel. Lecture Notes in Mechanical Engineering, 2017, , 447-452.	0.4	2