

Sahoo, Ashok Kumar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8993530/publications.pdf>

Version: 2024-02-01

70
papers

1,412
citations

331642

21
h-index

377849

34
g-index

70
all docs

70
docs citations

70
times ranked

832
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Performance Analysis of Coated Carbide Insert in Turning of Ti-6Al-4V ELI Grade Alloy under Dry, Minimum Quantity Lubrication and Spray Impingement Cooling Environments. Journal of Materials Engineering and Performance, 2022, 31, 709-732.	2.5	11
2	HARD TURNING PERFORMANCE EVALUATION USING CVD AND PVD COATED CARBIDE TOOLS: A COMPARATIVE STUDY. Surface Review and Letters, 2022, 29, .	1.1	13
3	Investigation on surface roughness, tool wear and cutting power in MQL turning of bio-medical Ti-6Al-4V ELI alloy with sustainability. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2022, 236, 1452-1466.	2.5	9
4	INVESTIGATION OF MACHINABILITY PERFORMANCE IN TURNING OF Ti-6Al-4V ELI ALLOY USING FIREFLY ALGORITHM AND GRNN APPROACHES. Surface Review and Letters, 2022, 29, .	1.1	5
5	Turning performance analysis and optimization of processing parameters using GRA-PSO approach in sustainable manufacturing. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2022, 236, 2404-2419.	2.5	1
6	Analysis of Wiper Tool Failure and Surface Roughness in Turning of Bio-compatible Ti-6Al-4V ELI Alloy. Journal of Failure Analysis and Prevention, 2021, 21, 1403-1422.	0.9	5
7	Machinability behaviour of biocompatible Ti-6Al-4V ELI titanium alloy under flood cooling environment. Materials Today: Proceedings, 2020, 23, 536-540.	1.8	12
8	Enhancement of material properties of titanium alloys through heat treatment process: A brief review. Materials Today: Proceedings, 2020, 23, 561-564.	1.8	27
9	Performances of time-controlled pulse minimum quantity lubrication in machining of hard to cut material: A brief review. Materials Today: Proceedings, 2020, 23, 545-548.	1.8	4
10	Adaptive tool condition monitoring system: A brief review. Materials Today: Proceedings, 2020, 23, 474-478.	1.8	11
11	A review on machinability aspects for AISI 52100 bearing steel. Materials Today: Proceedings, 2020, 23, 617-621.	1.8	25
12	Influence of Al ₂ O ₃ and TiO ₂ nanofluid on hard turning performance. International Journal of Advanced Manufacturing Technology, 2020, 106, 2265-2280.	3.0	34
13	Cutting Tool Failure and Surface Finish Analysis in Pulsating MQL-Assisted Hard Turning. Journal of Failure Analysis and Prevention, 2020, 20, 1274-1291.	0.9	12
14	Prediction models for on-line cutting tool and machined surface condition monitoring during hard turning considering vibration signal. Mechanics and Industry, 2020, 21, 520.	1.3	22
15	Experimental investigation into characterization and machining of Al ₂ O ₃ /SiCp nano-composites using coated carbide tool. Mechanics and Industry, 2020, 21, 307.	1.3	19
16	Particle Swarm Optimization of Multi-responses in Hard Turning of D2 Steel. Advances in Intelligent Systems and Computing, 2020, , 237-244.	0.6	1
17	Pulsating minimum quantity lubrication assisted high speed turning on bio-medical Ti-6Al-4V ELI Alloy: An experimental investigation. Mechanics and Industry, 2020, 21, 625.	1.3	10
18	Analysis and Optimization of Surface Integrity Characteristics of EDMed Work Surface Inconel 718 Super-Alloy Using Grey-Based Taguchi Method. Lecture Notes in Mechanical Engineering, 2019, , 441-448.	0.4	0

#	ARTICLE	IF	CITATIONS
19	A Brief Review on Different Lubricants Used in MQL Process During Hard Turning. Lecture Notes in Mechanical Engineering, 2019, , 853-860.	0.4	2
20	A Comprehensive Review on Jute Fiber Reinforced Composites. Lecture Notes in Mechanical Engineering, 2019, , 459-467.	0.4	24
21	Machining Performance Optimization During Electro Discharge Machining on Titanium (Grade 4): Application of Satisfaction Function and Distance-Based Approach. Lecture Notes in Mechanical Engineering, 2019, , 535-542.	0.4	1
22	A Brief Review on Ionic Fluids and its Application in Machining. Materials Today: Proceedings, 2019, 18, 4441-4448.	1.8	4
23	Prediction of Machining Performances in Hardened AISI D2 Steel. Materials Today: Proceedings, 2019, 18, 2486-2495.	1.8	6
24	Study On Machining Performances During Hard Turning Process Using Vibration Signal Under MQL Environment: A Review. Materials Today: Proceedings, 2019, 18, 3539-3545.	1.8	8
25	Analysis of Machinability Aspects during Hard Turning of Bearing Steel. Materials Today: Proceedings, 2019, 18, 3590-3596.	1.8	2
26	Machining Performance Measures of High Temperature Heat Resistant Super alloys: A Review. Materials Today: Proceedings, 2019, 18, 4524-4530.	1.8	3
27	Recent Trends and Future Perspectives on Vibration Assisted Turning: A Brief Review. IOP Conference Series: Materials Science and Engineering, 2019, 653, 012037.	0.6	2
28	A Perspective Review on Surface Integrity and Its Machining Behavior of AISI 4340 Hardened Alloy Steel. Materials Today: Proceedings, 2019, 18, 3532-3538.	1.8	5
29	A Brief Review on Effects of Conventional and Nano Particle Based Machining Fluid on Machining Performance of Minimum Quantity Lubrication Machining. Materials Today: Proceedings, 2019, 18, 5421-5431.	1.8	25
30	Machinability behavior of Aluminium Alloys: A Brief Study. Materials Today: Proceedings, 2019, 18, 5069-5075.	1.8	31
31	Optimization and Modeling Approaches in Machining of High Temperature Super Alloy Steels: An Overview. IOP Conference Series: Materials Science and Engineering, 2019, 653, 012042.	0.6	1
32	Measurement and machinability study under environmentally conscious spray impingement cooling assisted machining. Measurement: Journal of the International Measurement Confederation, 2019, 135, 913-927.	5.0	51
33	TRIBOMECHANICAL PERFORMANCE OF GLASS-EPoxy HYBRID COMPOSITES FILLED WITH MARBLE POWDER WITH THE TAGUCHI DESIGN AND ARTIFICIAL NEURAL NETWORK. Composites: Mechanics, Computations, Applications, 2019, 10, 17-38.	0.3	2
34	Comparative investigation towards machinability improvement in hard turning using coated and uncoated carbide inserts: part I experimental investigation. Advances in Manufacturing, 2018, 6, 52-70.	6.1	60
35	Comparative study on machinability improvement in hard turning using coated and uncoated carbide inserts: part II modeling, multi-response optimization, tool life, and economic aspects. Advances in Manufacturing, 2018, 6, 155-175.	6.1	43
36	Investigation of Flank Wear in Hard Turning of AISI 52100 Grade Steel Using Multilayer Coated Carbide and Mixed Ceramic Inserts. Procedia Manufacturing, 2018, 20, 365-371.	1.9	12

#	ARTICLE	IF	CITATIONS
37	Modelling of Flank wear, Surface roughness and Cutting Temperature in Sustainable Hard Turning of AISI D2 Steel. Procedia Manufacturing, 2018, 20, 406-413.	1.9	31
38	High speed turning of EN24 steel - a Taguchi based grey relational approach. Materials Today: Proceedings, 2018, 5, 4097-4105.	1.8	3
39	Comparative machinability performance of heat treated 4340 Steel under dry and minimum quantity lubrication surroundings. Procedia Manufacturing, 2018, 20, 377-385.	1.9	25
40	Optimization of machining parameters and development of surface roughness models during turning Al-based metal matrix composite. Materials Today: Proceedings, 2018, 5, 4431-4437.	1.8	14
41	An investigation to study the wear characteristics and comparative performance of cutting inserts during hard turning. International Journal of Machining and Machinability of Materials, 2018, 20, 320.	0.1	7
42	Temperature distribution during AISI 316 steel turning under TiO ₂ -water based nanofluid spray environments. Materials Today: Proceedings, 2018, 5, 20741-20749.	1.8	11
43	ANN Modeling of Cutting Performances in Spray Cooling Assisted Hard Turning. Materials Today: Proceedings, 2018, 5, 18482-18488.	1.8	9
44	Tool condition monitoring during hard turning of AISI 52100 Steel: A case study. Materials Today: Proceedings, 2018, 5, 18585-18592.	1.8	7
45	Investigation on machinability characteristics during turning Al6063 alloy using uncoated carbide insert. Materials Today: Proceedings, 2018, 5, 18120-18128.	1.8	2
46	Cutting tool vibration analysis for better surface finish during dry turning of mild steel. Materials Today: Proceedings, 2018, 5, 24605-24611.	1.8	4
47	Experimental investigation on surface roughness and tool wear in hard turning JIS S45C steel. Materials Today: Proceedings, 2018, 5, 24535-24540.	1.8	2
48	Comparative machining performance of hardened AISI 4340 Steel under dry and minimum quantity lubrication environments. Materials Today: Proceedings, 2018, 5, 24898-24906.	1.8	11
49	Experimental investigation on hard turning using mixed ceramic insert under accelerated cooling environment. International Journal of Industrial Engineering Computations, 2018, , 509-522.	0.7	11
50	A Brief Review on Machining of Ti-6Al-4V under Different Cooling Environments. IOP Conference Series: Materials Science and Engineering, 2018, 455, 012101.	0.6	4
51	Synthesis and characterization of Al & SiCp nano particles by non-contact ultrasonic assisted method. AIP Conference Proceedings, 2018, , .	0.4	0
52	Statistical regression modeling and machinability study of hardened AISI 52100 steel using cemented carbide insert. International Journal of Industrial Engineering Computations, 2017, , 33-44.	0.7	2
53	Multi-attribute decision making parametric optimization and modeling in hard turning using ceramic insert through grey relational analysis: A case study. Decision Science Letters, 2016, , 581-592.	1.2	91
54	Investigations on surface quality characteristics with multi-response parametric optimization and correlations. AEJ - Alexandria Engineering Journal, 2016, 55, 1625-1633.	6.4	29

#	ARTICLE	IF	CITATIONS
55	Response surface and artificial neural network prediction model and optimization for surface roughness in machining. International Journal of Industrial Engineering Computations, 2015, 6, 229-240.	0.7	23
56	Experimental investigation on cutting tool performance during turning AA 6063 using uncoated and multilayer coated carbide inserts. International Journal of Machining and Machinability of Materials, 2015, 17, 277.	0.1	9
57	A response surface methodology and desirability approach for predictive modeling and optimization of cutting temperature in machining hardened steel. International Journal of Industrial Engineering Computations, 2014, 5, 407-416.	0.7	29
58	Application of Taguchi and regression analysis on surface roughness in machining hardened AISI D2 steel. International Journal of Industrial Engineering Computations, 2014, , 295-304.	0.7	10
59	Performance studies of multilayer hard surface coatings (TiN/TiCN/Al ₂ O ₃ /TiN) of indexable carbide inserts in hard machining: Part-I (An experimental approach). Measurement: Journal of the International Measurement Confederation, 2013, 46, 2854-2867.	5.0	42
60	A comparative study on performance of multilayer coated and uncoated carbide inserts when turning AISI D2 steel under dry environment. Measurement: Journal of the International Measurement Confederation, 2013, 46, 2695-2704.	5.0	43
61	Modeling and optimization of Al/SiCp MMC machining using Taguchi approach. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3064-3072.	5.0	125
62	Performance studies of multilayer hard surface coatings (TiN/TiCN/Al ₂ O ₃ /TiN) of indexable carbide inserts in hard machining: Part-II (RSM, grey relational and techno economical approach). Measurement: Journal of the International Measurement Confederation, 2013, 46, 2868-2884.	5.0	79
63	Application of response surface methodology on investigating flank wear in machining hardened steel using PVD TiN coated mixed ceramic insert. International Journal of Industrial Engineering Computations, 2013, 4, 469-478.	0.7	19
64	Optimization of multiple performance characteristics in turning using Taguchi's quality loss function: An experimental investigation. International Journal of Industrial Engineering Computations, 2013, 4, 325-336.	0.7	7
65	Experimental investigation on flank wear and tool life, cost analysis and mathematical model in turning hardened steel using coated carbide inserts. International Journal of Industrial Engineering Computations, 2013, 4, 571-578.	0.7	6
66	Multi-Objective Optimization and Predictive Modeling of Surface Roughness and Material Removal Rate in Turning Using Grey Relational and Regression Analysis. Procedia Engineering, 2012, 38, 1606-1627.	1.2	40
67	Experimental investigations on machinability aspects in finish hard turning of AISI 4340 steel using uncoated and multilayer coated carbide inserts. Measurement: Journal of the International Measurement Confederation, 2012, 45, 2153-2165.	5.0	149
68	Optimisation of multiple performance characteristics in abrasive jet machining using grey relational analysis. International Journal of Manufacturing Technology and Management, 2011, 24, 4.	0.1	31
69	Surface roughness model and parametric optimization in finish turning using coated carbide insert: Response surface methodology and Taguchi approach. International Journal of Industrial Engineering Computations, 2011, 2, 819-830.	0.7	34
70	MACHINABILITY INVESTIGATION OF HIGH-STRENGTH 7068 ALUMINUM ALLOY: A POTENTIAL STUDY THROUGH EXPERIMENTATION, SPOTTED HYENA OPTIMIZATION AND ADVANCED MODELING APPROACHES. Surface Review and Letters, 0, , .	1.1	0