

Kalipada Maity

List of Publications by Year in descending order

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96
papers

1,617
citations

331670

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361022

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96
docs citations

96
times ranked

1076
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction and optimization of surface roughness and micro-hardness using grnn and MOORA-fuzzy-MCDM approach for nitinol in WEDM. Measurement: Journal of the International Measurement Confederation, 2018, 118, 1-13.	5.0	98
2	Comparison the machinability of Inconel 718, Inconel 625 and Monel 400 in hot turning operation. Engineering Science and Technology, an International Journal, 2018, 21, 364-370.	3.2	75
3	Modeling of machining parameters affecting flank wear and surface roughness in hot turning of Monel-400 using response surface methodology (RSM). Measurement: Journal of the International Measurement Confederation, 2019, 137, 375-381.	5.0	68
4	Application of GRNN and multivariate hybrid approach to predict and optimize WEDM responses for Ni-Ti shape memory alloy. Applied Soft Computing Journal, 2018, 70, 665-679.	7.2	66
5	An experimental investigation of hot-machining to predict tool life. Journal of Materials Processing Technology, 2008, 198, 344-349.	6.3	56
6	Effect of process parameters on cut quality of stainless steel of plasma arc cutting using hybrid approach. International Journal of Advanced Manufacturing Technology, 2015, 78, 161-175.	3.0	55
7	Optimization of Machining Condition in WEDM for Titanium Grade 6 Using MOORA Coupled with PCA " A Multivariate Hybrid Approach. Journal of Advanced Manufacturing Systems, 2017, 16, 81-99.	1.0	54
8	Effect of Electrode Materials on Different EDM Aspects of Titanium Alloy. Silicon, 2019, 11, 187-196.	3.3	52
9	Influence of cutting speed and cooling method on the machinability of commercially pure titanium (CP-Ti) grade II. Journal of Manufacturing Processes, 2018, 31, 650-661.	5.9	51
10	A REVIEW ON VIBRATION-ASSISTED EDM, MICRO-EDM AND WEDM. Surface Review and Letters, 2019, 26, 1830008.	1.1	49
11	Effect of nose radius on forces, and process parameters in hot machining of Inconel 718 using finite element analysis. Engineering Science and Technology, an International Journal, 2017, 20, 687-693.	3.2	48
12	Effect of cutting speed and CVD multilayer coating on machinability of Inconel 825. Surface Engineering, 2014, 30, 516-523.	2.2	46
13	ANN modelling and Elitist teaching learning approach for multi-objective optimization of μ -EDM. Journal of Intelligent Manufacturing, 2018, 29, 1599-1616.	7.3	45
14	Effect of different tool materials during EDM performance of titanium grade 6 alloy. Engineering Science and Technology, an International Journal, 2018, 21, 507-516.	3.2	41
15	Comparative study of some machinability aspects in turning of pure titanium with untreated and cryogenically treated carbide inserts. Journal of Manufacturing Processes, 2017, 28, 272-284.	5.9	39
16	An optimisation of micro-EDM operation for fabrication of micro-hole. International Journal of Advanced Manufacturing Technology, 2012, 61, 1221-1229.	3.0	37
17	Predictive Analysis on Responses in WEDM of Titanium Grade 6 Using General Regression Neural Network (GRNN) and Multiple Regression Analysis (MRA). Silicon, 2018, 10, 1763-1776.	3.3	36
18	Evaluation on Effectiveness of CVD and PVD Coated Tools during Dry Machining of Incoloy 825. Tribology Transactions, 2016, 59, 1048-1058.	2.0	33

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19	Application of MCDM-based TOPSIS method for the selection of optimal process parameter in turning of pure titanium. Benchmarking, 2017, 24, 2009-2021.	4.6	31
20	NSGA-II Approach for Multi- Objective Optimization of Wire Electrical Discharge Machining Process Parameter on Inconel 718. Materials Today: Proceedings, 2017, 4, 2194-2202.	1.8	26
21	Numerical and experimental analysis of specific cutting energy in hot turning of Inconel 718. Measurement: Journal of the International Measurement Confederation, 2019, 133, 361-369.	5.0	25
22	Effect of machining parameter on the surface roughness of AISI 304 in silicon carbide powder mixed EDM. Decision Science Letters, 2017, , 261-268.	1.2	23
23	Effect of Cutting Speed and Tool Coating on Machined Surface Integrity of Ni-based Super Alloy. Procedia CIRP, 2014, 14, 541-545.	1.9	22
24	Application of MCDM-Based TOPSIS Method for the Optimization of Multi Quality Characteristics of Modern Manufacturing Processes. International Journal of Engineering Research in Africa, 0, 23, 33-51.	0.7	22
25	A Novel MCDM Approach for Simultaneous Optimization of some Correlated Machining Parameters in Turning of CP-Titanium Grade 2. International Journal of Engineering Research in Africa, 0, 22, 94-111.	0.7	22
26	FEM analysis and experimental investigation of force and chip formation on hot turning of Inconel 625. Defence Technology, 2019, 15, 853-860.	4.2	22
27	Numerical Modeling of Wire Electrical Discharge Machining of Super Alloy Inconel 718. Procedia Engineering, 2014, 97, 1512-1523.	1.2	20
28	A class of slipline field solutions for metal machining with slipping and sticking contact at the chip-tool interface. International Journal of Mechanical Sciences, 2001, 43, 2435-2452.	6.7	18
29	Simulation of abrasive flow machining process for 2D and 3D mixture models. Frontiers of Mechanical Engineering, 2015, 10, 424-432.	4.3	18
30	Analysis of some critical aspects in hot machining of Ti-5553 superalloy: Experimental and FE analysis. Defence Technology, 2019, 15, 344-352.	4.2	18
31	A class of upper-bound solutions for the extrusion of square shapes from square billets through curved dies. Journal of Materials Processing Technology, 1996, 62, 185-190.	6.3	17
32	Experimental investigation on tool life and chip morphology in hot machining of Monel-400. Engineering Science and Technology, an International Journal, 2018, 21, 371-379.	3.2	17
33	Multi-response optimization of EDM parameters using grey relational analysis (GRA) for Ti-5Al-2.5Sn titanium alloy. World Journal of Engineering, 2021, 18, 50-57.	1.6	17
34	Parametric Optimization of Some Non-Conventional Machining Processes Using MOORA Method. International Journal of Engineering Research in Africa, 0, 20, 19-40.	0.7	15
35	FEM and experimental analysis of thermal assisted machining of titanium base alloys. Measurement: Journal of the International Measurement Confederation, 2020, 152, 107292.	5.0	15
36	Investigation of FEM Simulation of Machining of Titanium Alloy Using Microgroove Cutting Insert. Silicon, 2018, 10, 1949-1959.	3.3	14

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37	A slip-line solution to metal machining using a cutting tool with a step-type chip-breaker. Journal of Materials Processing Technology, 1998, 79, 217-223.	6.3	13
38	A Comprehensive GRNN Model for the Prediction of Cutting Force, Surface Roughness and Tool Wear During Turning of CP-Ti Grade 2. Silicon, 2018, 10, 2181-2191.	3.3	13
39	Application potential of combined fuzzy-TOPSIS approach in minimization of surface roughness, cutting force and tool wear during machining of CP-Ti grade II. Soft Computing, 2019, 23, 6667-6678.	3.6	13
40	Modeling and process simulation of vibration assisted workpiece in micro-EDM using FEM. World Journal of Engineering, 2016, 13, 242-250.	1.6	12
41	Parametric modelling of multiple quality characteristics in turning of CP titanium grade-2 with cryo-treated inserts. International Journal of Materials and Product Technology, 2017, 54, 306.	0.2	12
42	Multi-objective optimization of PMEDM using response surface methodology coupled with fuzzy based desirability function approach. Decision Science Letters, 2017, , 387-394.	1.2	12
43	A class of slip-line field solutions for metal machining with elastic contact. Journal of Materials Processing Technology, 1999, 96, 9-18.	6.3	11
44	Optimization in Hot Turning of Nickel Based Alloy Using Desirability Function Analysis. International Journal of Engineering Research in Africa, 2016, 24, 64-70.	0.7	11
45	Multi-Response Optimization of WEDM Process Parameters Using Taguchi Based Desirability Function Analysis. IOP Conference Series: Materials Science and Engineering, 2018, 338, 012004.	0.6	11
46	An Integrated Fuzzy-MOORA Method for the Selection of Optimal Parametric Combination in Turing of Commercially Pure Titanium. Springer Series in Advanced Manufacturing, 2020, , 163-184.	0.5	10
47	Experimental analysis of the effect of gas flow rate and nature on plasma arc cutting of hardox-400. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 345-352.	2.5	10
48	Performance analysis in WEDM of titanium grade 6 through process capability index. World Journal of Engineering, 2020, 17, 144-151.	1.6	10
49	Optimization of Multi-Responses in Hot Turning of Inconel 625 Alloy Using DEA-Taguchi Approach. International Journal of Engineering Research in Africa, 2016, 24, 57-63.	0.7	9
50	Application of desirability function based response surface methodology (DRSM) for investigating the plasma arc cutting process of sailhard steel. World Journal of Engineering, 2018, 15, 505-512.	1.6	9
51	Hot machining of Ti-6Al-4V: FE analysis and experimental validation. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	1.3	9
52	A class of slipline field solutions for metal machining with Coulomb friction at the chip-tool interface. Journal of Materials Processing Technology, 2001, 116, 278-288.	6.3	8
53	Effect of process parameters on the surface crack density of AISI 304 in PMEDM. World Journal of Engineering, 2017, 14, 475-482.	1.6	8
54	Effect of deep cryotreated tungsten carbide electrode and SiC powder on EDM performance of AISI 304. Particulate Science and Technology, 2019, 37, 981-992.	2.1	8

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55	3D FINITE ELEMENT MODELING FOR ESTIMATING KEY MACHINABILITY ASPECTS IN TURNING OF COMMERCIAL PURE TITANIUM. <i>Surface Review and Letters</i> , 2019, 26, 1850136.	1.1	8
56	Experimental assessment on performance of TiN/TiCN/Al ₂ O ₃ /ZrCN coated tool during dry machining of Nimonic C-263. <i>International Journal of Machining and Machinability of Materials</i> , 2016, 18, 452.	0.1	7
57	Study of Chip Morphology, Flank Wear on Different Machinability Conditions of Titanium Alloy (Ti-6Al-4V) Using Response Surface Methodology Approach. <i>International Journal of Materials Forming and Machining Processes</i> , 2017, 4, 19-37.	0.6	7
58	Numerical and experimental study on the three-dimensional extrusion of square section from square billet through a polynomial shaped curved die. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 54, 495-506.	3.0	6
59	Numerical analysis of chip geometry on hot machining of nickel base alloy. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	6
60	Determination of Material Removal Rate and Radial Overcut in Electro Discharge Machining of AISI 304 Using Dimensional Analysis. <i>Applied Mechanics and Materials</i> , 2016, 852, 160-165.	0.2	5
61	Fabrication and characterization of the Al ₆₀ 63/5%ZrO ₂ /5%Al ₂ O ₃ composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 178, 012011.	0.6	5
62	Multi-Objective Optimization of Wire Electrical Discharge Machining Process Parameter on Inconel 718. <i>Materials Today: Proceedings</i> , 2017, 4, 2137-2146.	1.8	5
63	Optimization of Dimensional accuracy in plasma arc cutting process employing parametric modelling approach. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 338, 012039.	0.6	5
64	Estimation of optimal cutting conditions during machining of CP-Ti grade 2 in fuzzy VIKOR context. <i>Grey Systems Theory and Application</i> , 2020, 10, 293-310.	2.1	5
65	EFFECT OF ELECTRODE MATERIAL ON CUT QUALITIES OF SHAPE MEMORY ALLOY DURING WEDM: A COMPARATIVE STUDY. <i>Surface Review and Letters</i> , 2020, 27, 1950136.	1.1	5
66	A class of slipline field solutions for metal machining with sticking-slipping zone including elastic contact. <i>Materials & Design</i> , 2007, 28, 2310-2317.	5.1	4
67	Parametric Optimization of Simulated Extrusion of Square to Square Section Through Linear Converging Die. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 115, 012031.	0.6	4
68	Study of process parameter on mist lubrication of Titanium (Grade 5) alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 178, 012030.	0.6	4
69	EFFECTS OF PROCESS PARAMETERS AND CRYOTREATED ELECTRODE ON THE RADIAL OVERCUT OF AISI 304 IN SiC POWDER MIXED EDM. <i>Surface Review and Letters</i> , 2017, 24, 1850029.	1.1	4
70	Optimization of Machining Parameter Characteristics during Turning of Ti-6Al-4V using Desirability Function Analysis. <i>Materials Today: Proceedings</i> , 2018, 5, 25740-25749.	1.8	4
71	A class of slipline field solutions for extrusion through wedge shaped dies with slipping friction. <i>Materials & Design</i> , 2007, 28, 380-386.	5.1	3
72	Experimental investigation and finite element simulation of AISI 304 during electro discharge machining. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2018, 09, 1850022.	1.4	3

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73	Investigation of tool wear and surface roughness on machining of titanium alloy with MT-CVD cutting tool. IOP Conference Series: Materials Science and Engineering, 2018, 346, 012053.	0.6	3
74	EXPERIMENTAL INVESTIGATION OF EFFECT OF CRYO-TREATMENT ON MICROMILLING OF INCONEL 718. Surface Review and Letters, 2020, 27, 2050001.	1.1	3
75	FEM SIMULATION ASSESSMENT OF MACHINING TITANIUM GRADE 2 USING TEXTURED TOOL. Surface Review and Letters, 2021, 28, 2150080.	1.1	3
76	Computer-Aided Simulation of Metal Flow through Curved Die for Extrusion of Square Section from Square Billet. Key Engineering Materials, 0, 424, 181-188.	0.4	2
77	PREDICTIVE MODELING OF SURFACE ROUGHNESS, MATERIAL REMOVAL RATE AND KERF USING MULTIPLE REGRESSION ANALYSIS IN PLASMA ARC CUTTING PROCESS OF HARDOX AND ABREX STEEL. Surface Review and Letters, 2020, 27, 1950206.	1.1	2
78	MULTI-OBJECTIVE OPTIMIZATION OF EDM PROCESS PARAMETERS USING RSM-BASED GRA AND TOPSIS METHOD FOR GRADE 6 TITANIUM ALLOY. Surface Review and Letters, 2021, 28, 2150062.	1.1	2
79	EXPERIMENTAL INVESTIGATION OF MICRO-EDM OPERATION IN INCONEL 718. Surface Review and Letters, 0, , 2150102.	1.1	2
80	An investigation on machinability of nitronic 50 in dry environment using uncoated WC-Co tool inserts. Materials Today: Proceedings, 2022, 62, 5971-5974.	1.8	2
81	Analysis of Process Parameters of Plasma Arc Cutting of Stainless Steel Using Taguchi Method. Applied Mechanics and Materials, 0, 110-116, 3551-3556.	0.2	1
82	Design and Experimental Verification during Extrusion of Square Sections from Round Billets through Curved Dies. Key Engineering Materials, 2011, 491, 249-256.	0.4	1
83	FEM Modeling of Extrusion of Square Billet to Square Product Through Cosine Dies. Journal of the Institution of Engineers (India): Series C, 2017, 98, 91-96.	1.2	1
84	Machinability assessment of commercially pure titanium (CP-Ti) during turning operation: Application potential of GRA method. IOP Conference Series: Materials Science and Engineering, 2018, 338, 012005.	0.6	1
85	Optimization of hot turning parameters using principal component analysis method. Materials Today: Proceedings, 2020, 22, 2081-2087.	1.8	1
86	3D simulation analysis of hot machining of nickel alloy. Materials Today: Proceedings, 2020, 22, 2093-2102.	1.8	1
87	Parametric modelling of multiple quality characteristics in turning of CP titanium grade-2 with cryo-treated inserts. International Journal of Materials and Product Technology, 2017, 54, 306.	0.2	1
88	EFFECT OF INPUT PARAMETERS ON THE KEY MACHINABILITY ASPECTS OF NITINOL DURING WEDM. Surface Review and Letters, 2022, 29, .	1.1	1
89	Three Dimensional Upper Bound Modelling for Extrusion of Round-to-Octagon Section Using Linearly Converging Die. Key Engineering Materials, 2009, 424, 189-196.	0.4	0
90	A Numerical Investigation of Extrusion through Bezier Shaped Curved Die Profile. Key Engineering Materials, 2010, 443, 93-97.	0.4	0

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91	FEM Analysis during Extrusion of Round-To-Pentagonal Sections through Converging Dies. Advanced Materials Research, 2012, 500, 410-413.	0.3	0
92	FEM Analysis of Extrusion of Triangular Sections from Round Billets through Curved Dies. Advanced Materials Research, 2012, 500, 391-396.	0.3	0
93	Numerical prediction of hole profile in laser drilling process and experimental validation. International Journal of Advanced Manufacturing Technology, 2017, 90, 3099-3107.	3.0	0
94	Mechanical and Tribological Characteristics of the AMC, Prepared by P/M Route along with Thermo-Mechanical Treatment. IOP Conference Series: Materials Science and Engineering, 2018, 338, 012023.	0.6	0
95	Effect of Process Parameters and Cryotreated Post Tempered Electrodes on the Radial Overcut of AISI 304 During EDM: A Comparative Study. Lecture Notes on Multidisciplinary Industrial Engineering, 2018, , 21-28.	0.6	0
96	Effect of powder concentration on the EDM performance of AISI 304 using cryotreated post tempered electrodes. Engineering Review, 2021, 42, .	0.5	0