

# Kalipada Maity

## List of Publications by Year in descending order

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96  
papers

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331670

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docs citations

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times ranked

1076  
citing authors

#	ARTICLE	IF	CITATIONS
1	EFFECT OF INPUT PARAMETERS ON THE KEY MACHINABILITY ASPECTS OF NITINOL DURING WEDM. Surface Review and Letters, 2022, 29, .	1.1	1
2	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
3	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
4	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
5	FEM SIMULATION ASSESSMENT OF MACHINING TITANIUM GRADE 2 USING TEXTURED TOOL. Surface Review and Letters, 2021, 28, 2150080.	1.1	3
6	Effect of powder concentration on the EDM performance of AISI 304 using cryotreated post tempered electrodes. Engineering Review, 2021, 42, .	0.5	0
7	An Integrated Fuzzy-MOORA Method for the Selection of Optimal Parametric Combination in Turning of Commercially Pure Titanium. Springer Series in Advanced Manufacturing, 2020, , 163-184.	0.5	10
8	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
9	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
10	Optimization of hot turning parameters using principal component analysis method. Materials Today: Proceedings, 2020, 22, 2081-2087.	1.8	1
11	Estimation of optimal cutting conditions during machining of CP-Ti grade 2 in fuzzyâ€“VIKOR context. Grey Systems Theory and Application, 2020, 10, 293-310.	2.1	5
12	3D simulation analysis of hot machining of nickel alloy. Materials Today: Proceedings, 2020, 22, 2093-2102.	1.8	1
13	Performance analysis in WEDM of titanium grade 6 through process capability index. World Journal of Engineering, 2020, 17, 144-151.	1.6	10
14	EFFECT OF ELECTRODE MATERIAL ON CUT QUALITIES OF SHAPE MEMORY ALLOY DURING WEDM: A COMPARATIVE STUDY. Surface Review and Letters, 2020, 27, 1950136.	1.1	5
15	EXPERIMENTAL INVESTIGATION OF EFFECT OF CRYO-TREATMENT ON MICROMILLING OF INCONEL 718. Surface Review and Letters, 2020, 27, 2050001.	1.1	3
16	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
17	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
18	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

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19	Hot machining of Ti-6Al-4V: FE analysis and experimental validation. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	1.3	9
20	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
21	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
22	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
23	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
24	A REVIEW ON VIBRATION-ASSISTED EDM, MICRO-EDM AND WEDM. Surface Review and Letters, 2019, 26, 1830008.	1.1	49
25	3D FINITE ELEMENT MODELING FOR ESTIMATING KEY MACHINABILITY ASPECTS IN TURNING OF COMMERCIAL PURE TITANIUM. Surface Review and Letters, 2019, 26, 1850136.	1.1	8
26	Effect of Electrode Materials on Different EDM Aspects of Titanium Alloy. Silicon, 2019, 11, 187-196.	3.3	52
27	ANN modelling and Elitist teaching learning approach for multi-objective optimization of $\mu$ -EDM. Journal of Intelligent Manufacturing, 2018, 29, 1599-1616.	7.3	45
28	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
29	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
30	Investigation of FEM Simulation of Machining of Titanium Alloy Using Microgroove Cutting Insert. Silicon, 2018, 10, 1949-1959.	3.3	14
31	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
32	Experimental investigation and finite element simulation of AISI 304 during electro discharge machining. International Journal of Modeling, Simulation, and Scientific Computing, 2018, 09, 1850022.	1.4	3
33	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
34	Prediction and optimization of surface roughness and micro-hardness using grnn and MOORA-fuzzy-a MCDM approach for nitinol in WEDM. Measurement: Journal of the International Measurement Confederation, 2018, 118, 1-13.	5.0	98
35	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
36	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

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37	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
38	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
39	Investigation of tool wear and surface roughness on machining of titanium alloy with MT-CVD cutting tool. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 346, 012053.	0.6	3
40	A Comprehensive GRNN Model for the Prediction of Cutting Force, Surface Roughness and Tool Wear During Turning of CP-Ti Grade 2. <i>Silicon</i> , 2018, 10, 2181-2191.	3.3	13
41	Effect of different tool materials during EDM performance of titanium grade 6 alloy. <i>Engineering Science and Technology, an International Journal</i> , 2018, 21, 507-516.	3.2	41
42	Application of GRNN and multivariate hybrid approach to predict and optimize WEDM responses for Ni-Ti shape memory alloy. <i>Applied Soft Computing Journal</i> , 2018, 70, 665-679.	7.2	66
43	Effect of Process Parameters and Cryotreated Post Tempered Electrodes on the Radial Overcut of AISI 304 During EDM: A Comparative Study. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2018, , 21-28.	0.6	0
44	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
45	Application of desirability function based response surface methodology (DRSM) for investigating the plasma arc cutting process of sailhard steel. <i>World Journal of Engineering</i> , 2018, 15, 505-512.	1.6	9
46	Multi-Response Optimization of WEDM Process Parameters Using Taguchi Based Desirability Function Analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 338, 012004.	0.6	11
47	Fabrication and characterization of the Al <sub>60</sub> 63/5%ZrO <sub>2</sub> /5%Al <sub>2</sub> O <sub>3</sub> composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 178, 012011.	0.6	5
48	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
49	NSGA-II Approach for Multi- Objective Optimization of Wire Electrical Discharge Machining Process Parameter on Inconel 718. <i>Materials Today: Proceedings</i> , 2017, 4, 2194-2202.	1.8	26
50	Numerical prediction of hole profile in laser drilling process and experimental validation. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 3099-3107.	3.0	0
51	FEM Modeling of Extrusion of Square Billet to Square Product Through Cosine Dies. <i>Journal of the Institution of Engineers (India): Series C</i> , 2017, 98, 91-96.	1.2	1
52	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
53	Application of MCDM-based TOPSIS method for the selection of optimal process parameter in turning of pure titanium. <i>Benchmarking</i> , 2017, 24, 2009-2021.	4.6	31
54	Parametric modelling of multiple quality characteristics in turning of CP titanium grade-2 with cryo-treated inserts. <i>International Journal of Materials and Product Technology</i> , 2017, 54, 306.	0.2	12

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55	EFFECTS OF PROCESS PARAMETERS AND CRYOTREATED ELECTRODE ON THE RADIAL OVERCUT OF AISI 304 IN SiC POWDER MIXED EDM. Surface Review and Letters, 2017, 24, 1850029.	1.1	4
56	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
57	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
58	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
59	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
60	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
61	Study of Chip Morphology, Flank Wear on Different Machinability Conditions of Titanium Alloy (Ti-6Al-4V) Using Response Surface Methodology Approach. International Journal of Materials Forming and Machining Processes, 2017, 4, 19-37.	0.6	7
62	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
63	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
64	Parametric Optimization of Simulated Extrusion of Square to Square Section Through Linear Converging Die. IOP Conference Series: Materials Science and Engineering, 2016, 115, 012031.	0.6	4
65	Modeling and process simulation of vibration assisted workpiece in micro-EDM using FEM. World Journal of Engineering, 2016, 13, 242-250.	1.6	12
66	Determination of Material Removal Rate and Radial Overcut in Electro Discharge Machining of AISI 304 Using Dimensional Analysis. Applied Mechanics and Materials, 2016, 852, 160-165.	0.2	5
67	Experimental assessment on performance of TiN/TiCN/Al<sub>2</sub>O<sub>3</sub>/ZrCN coated tool during dry machining of Nimonic C-263. International Journal of Machining and Machinability of Materials, 2016, 18, 452.	0.1	7
68	Evaluation on Effectiveness of CVD and PVD Coated Tools during Dry Machining of Incoloy 825. Tribology Transactions, 2016, 59, 1048-1058.	2.0	33
69	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
70	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
71	Simulation of abrasive flow machining process for 2D and 3D mixture models. Frontiers of Mechanical Engineering, 2015, 10, 424-432.	4.3	18
72	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

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73	Numerical Modeling of Wire Electrical Discharge Machining of Super Alloy Inconel 718. <i>Procedia Engineering</i> , 2014, 97, 1512-1523.	1.2	20
74	Effect of cutting speed and CVD multilayer coating on machinability of Inconel 825. <i>Surface Engineering</i> , 2014, 30, 516-523.	2.2	46
75	Effect of Cutting Speed and Tool Coating on Machined Surface Integrity of Ni-based Super Alloy. <i>Procedia CIRP</i> , 2014, 14, 541-545.	1.9	22
76	FEM Analysis during Extrusion of Round-To-Pentagonal Sections through Converging Dies. <i>Advanced Materials Research</i> , 2012, 500, 410-413.	0.3	0
77	FEM Analysis of Extrusion of Triangular Sections from Round Billets through Curved Dies. <i>Advanced Materials Research</i> , 2012, 500, 391-396.	0.3	0
78	An optimisation of micro-EDM operation for fabrication of micro-hole. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 61, 1221-1229.	3.0	37
79	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
80	Design and Experimental Verification during Extrusion of Square Sections from Round Billets through Curved Dies. <i>Key Engineering Materials</i> , 2011, 491, 249-256.	0.4	1
81	A Numerical Investigation of Extrusion through Bezier Shaped Curved Die Profile. <i>Key Engineering Materials</i> , 2010, 443, 93-97.	0.4	0
82	Three Dimensional Upper Bound Modelling for Extrusion of Round-to-Octagon Section Using Linearly Converging Die. <i>Key Engineering Materials</i> , 2009, 424, 189-196.	0.4	0
83	An experimental investigation of hot-machining to predict tool life. <i>Journal of Materials Processing Technology</i> , 2008, 198, 344-349.	6.3	56
84	A class of slipline field solutions for extrusion through wedge shaped dies with slipping friction. <i>Materials &amp; Design</i> , 2007, 28, 380-386.	5.1	3
85	A class of slipline field solutions for metal machining with sticking and slipping zone including elastic contact. <i>Materials &amp; Design</i> , 2007, 28, 2310-2317.	5.1	4
86	A class of slipline field solutions for metal machining with Coulomb friction at the chip-tool interface. <i>Journal of Materials Processing Technology</i> , 2001, 116, 278-288.	6.3	8
87	A class of slipline field solutions for metal machining with slipping and sticking contact at the chip-tool interface. <i>International Journal of Mechanical Sciences</i> , 2001, 43, 2435-2452.	6.7	18
88	A class of slip-line field solutions for metal machining with elastic contact. <i>Journal of Materials Processing Technology</i> , 1999, 96, 9-18.	6.3	11
89	A slip-line solution to metal machining using a cutting tool with a step-type chip-breaker. <i>Journal of Materials Processing Technology</i> , 1998, 79, 217-223.	6.3	13
90	A class of upper-bound solutions for the extrusion of square shapes from square billets through curved dies. <i>Journal of Materials Processing Technology</i> , 1996, 62, 185-190.	6.3	17

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91	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
92	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
93	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
94	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
95	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
96	EXPERIMENTAL INVESTIGATION OF MICRO-EDM OPERATION IN INCONEL 718. Surface Review and Letters, 0, , 2150102.	1.1	2