AKumar

List of Publications by Citations

28 papers	495 citations	13 h-index	22 g-index
28 ext. papers	574 ext. citations	1.5 avg, IF	4.09 L-index

#	Paper	IF	Citations
28	Multi-response optimization of process parameters based on response surface methodology for pure titanium using WEDM process. *International Journal of Advanced Manufacturing Technology*, **2013**, 68, 2645-2668	3.2	118
27	Surface crack density and recast layer thickness analysis in WEDM process through response surface methodology. *Machining Science and Technology*, **2016**, 20, 201-230	2	49
26	Multiple performance characteristics optimization for Al 7075 on electric discharge drilling by Taguchi grey relational theory. *Journal of Industrial Engineering International*, **2015**, 11, 459-472	2.6	44
25	Investigation of machining parameters and surface integrity in wire electric discharge machining of pure titanium. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2013**, 227, 972-992	2.4	39
24	MICROSTRUCTURE ANALYSIS AND MATERIAL TRANSFORMATION OF PURE TITANIUM AND TOOL WEAR SURFACE AFTER WIRE ELECTRIC DISCHARGE MACHINING PROCESS. *Machining Science and Technology*, **2014**, 18, 47-77	2	32
23	Semi-empirical model on MRR and overcut in WEDM process of pure titanium using multi-objective desirability approach. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2015**, 37, 689-721	2	30
22	Mathematical modeling and analysis of WEDM machining parameters of nickel-based super alloy using response surface methodology. *Sadhana - Academy Proceedings in Engineering Sciences*, **2017**, 42, 981-1005	1	29
21	Experimental Investigation on Material Transfer Mechanism in WEDM of Pure Titanium (Grade-2). *Advances in Materials Science and Engineering*, **2013**, 2013, 1-20	1.5	28
20	An Investigation into Machining Characteristics of Commercially Pure Titanium (Grade-2) Using CNC WEDM. *Applied Mechanics and Materials*, **2012**, 159, 56-68	0.3	22
19	Material Removal Rate, Electrode Wear Rate, and Surface Roughness Evaluation in Die Sinking EDM with Hollow Tool through Response Surface Methodology. *International Journal of Manufacturing Engineering*, **2014**, 2014, 1-16		19
18	Parametric Effect on Wire Breakage Frequency and Surface Topography in WEDM of Pure Titanium **2013**, 51-56		18
17	Surface integrity and material transfer investigation of pure titanium for rough cut surface after wire electro discharge machining. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2014**, 228, 880-901	2.4	14
16	Investigation of machining characterization for wire wear ratio & MRR on pure titanium in WEDM process through response surface methodology. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, **2018**, 232, 108-126	1.5	13
15	Investigation of microstructure and element migration for rough cut surface of pure titanium after WEDM. *International Journal of Microstructure and Materials Properties*, **2013**, 8, 343	0.4	13
14	Investigation of wire electrical discharge machining of ZrSiO4p/Al 6063 MMC. *International Journal of Machining and Machinability of Materials*, **2016**, 18, 392	0.7	5
13	Effect of machining parameters on dimensional deviation in wire electric discharge machining process using pure titanium. *Journal of Engineering & Technology*, **2013**, 3, 105		5
12	Multi-response optimization of magnetic field assisted EDM through desirability function using response surface methodology. *Journal of the Mechanical Behavior of Materials*, **2020**, 29, 19-35	1.9	3

List of Publications

11	Experimental investigation of WEDM process through integrated desirability and machine learning technique on implant material. *Journal of the Mechanical Behavior of Materials*, **2021**, 30, 38-48	1.9	3
10	Investigation of Micro-Cracks Susceptibility on Machined Pure Titanium Surface in WEDM Process. *Journal for Manufacturing Science and Production*, **2016**, 16, 123-139		2
9	Experimental Investigation of Multiple Quality Characteristics of Laser Beam Machined Surface using Integrated Taguchi and Fuzzy Logic Method. *Journal for Manufacturing Science and Production* , **2016**, 16, 189-199		2
8	Multi-objective optimization and Surface Morphology of M-42 AISI Steel Using Normal and Cryo-treated Brass Wire in Wire Cut EDM. *Arabian Journal for Science and Engineering*, **2021**, 46, 2721-2748	2.5	2
7	A novel approach of GEF and GA for the optimization of multi-objective wire EDM process during the machining of DC53 super alloy. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, **2021**, 235, 1119-1131	1.5	2
6	Investigation of biocompatible implant material through WEDM process using RSM modeling hybrid with the machine learning algorithm. *Sadhana - Academy Proceedings in Engineering Sciences*, **2021**, 46, 1	1	2
5	Investigation and Optimization of Parameters in Micro-Finishing of Hybrid Al/SiC/B4C MMCs by Novel MAFM Process through RSM. *Silicon*,1	2.4	1
4	Investigation of crack density, white layer thickness, and material characterization of biocompatible material commercially pure titanium (grade-2) through a wire electric discharge machining process using a response surface methodology. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*,09544089211028787	1.5	0
3	Modeling and Optimization of Turning Process Using White Coconut Oil as Metalworking Fluid Through Desirability Function. *Lecture Notes in Mechanical Engineering*, **2021**, 669-685	0.4	0
2	Mathematical Modeling and Optimization of Wire Electric Discharge Machining Parameters on Inconel 825 Using Desirability Method. *Journal of Computational and Theoretical Nanoscience*, **2020**, 17, 2441-2450	0.3	
1	Preliminary Investigation of Wire Cut EDM on Polycrystalline Silicon Ingot. *Lecture Notes in Mechanical Engineering*, **2021**, 813-824	0.4	