

Mohammad Reza Shabgard

List of Publications by Year in descending order

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41
papers

974
citations

471061

17
h-index

454577

30
g-index

41
all docs

41
docs citations

41
times ranked

769
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Cutting Fluid-Based CuO-Nanofluid with Boric Acid-Nanoparticles Additives on Machining Performances of AISI 4340 Tool Steel in High-Speed Turning Operation. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2022, 46, 335-345.	0.8	8
2	Evaluating the hole quality produced by vibratory drilling: additive manufactured PLA+. International Journal of Advanced Manufacturing Technology, 2021, 117, 785-794.	1.5	8
3	A novel approach to plasma channel radius determination and numerical modeling of electrical discharge machining process. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	10
4	Experimental and numerical study on the performance of printed alginate/hyaluronic acid/halloysite nanotube/polyvinylidene fluoride bio-scaffolds. Journal of Biomechanics, 2020, 104, 109764.	0.9	10
5	Study on effect of dielectric gas type on electrical discharge erosion synthesis of tungsten carbide nanopowder. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	6
6	Quasi-amorphous colloidal ZnO nanoparticles: facile single-step synthesise, comprehensive characterization and superior antibacterial efficacy. Materials Research Express, 2019, 6, 125010.	0.8	2
7	Prediction of initial particle size of the tungsten carbide synthesized by electrical discharge erosion method based on general dynamic equation of aerosols. Powder Technology, 2019, 346, 283-290.	2.1	8
8	Investigation into the performance of eco-friendly graphite nanofluid as lubricant in MQL grinding. Machining Science and Technology, 2019, 23, 569-594.	1.4	24
9	Experimental investigation on the effect of SiC particles in machining process of Al _{5.3%} Cu-SiC/Al ₂ O ₃ p hybrid nanocomposite by EDM. SN Applied Sciences, 2019, 1, 1.	1.5	7
10	Numerical studying and experimental investigation: Effect of Reynolds number on performance measures of EDM with high speed flushing. Journal of Manufacturing Processes, 2019, 48, 228-235.	2.8	3
11	Investigating the effects of external magnetic field on machining characteristics of electrical discharge machining process, numerically and experimentally. International Journal of Advanced Manufacturing Technology, 2019, 102, 55-65.	1.5	21
12	Numerical and experimental study of the effects of ultrasonic vibrations of tool on machining characteristics of EDM process. International Journal of Advanced Manufacturing Technology, 2018, 96, 2657-2669.	1.5	26
13	Finite difference simulation and experimental investigation: effects of physical synergetic properties of nanoparticles on temperature distribution and surface integrity of workpiece in nanofluid MQL grinding process. International Journal of Advanced Manufacturing Technology, 2018, 95, 2661-2679.	1.5	7
14	Mechanical and biological performance of printed alginate/methylcellulose/halloysite nanotube/polyvinylidene fluoride bio-scaffolds. Materials Science and Engineering C, 2018, 92, 779-789.	3.8	39
15	An Experimental Study on the Mechanical and Biological Properties of Bio-Printed Alginate/Halloysite Nanotube/Methylcellulose/Russian Olive-Based Scaffolds. Advanced Pharmaceutical Bulletin, 2018, 8, 643-655.	0.6	19
16	Effects of core sand type and heat treatment on solid particle erosion of core box AISI H13 tool steel. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2017, 231, 309-319.	0.7	0
17	Experimental investigations of cutting parameters TM influence on cutting forces and surface roughness in turning of Inconel alloy X-750 with biodegradable vegetable oil. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 1516-1527.	1.5	11
18	Investigation of the surface integrity characteristics in wire electrical discharge machining of Inconel 617. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 857-864.	0.8	22

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19	Tool wear estimating model considering modeling improvement factors in electrical discharge machining process based on physical properties of tool electrodes. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 850-866.	1.5	2
20	Experimental investigation into lubrication properties and mechanism of vegetable-based CuO nanofluid in MQL grinding. International Journal of Advanced Manufacturing Technology, 2017, 92, 3807-3823.	1.5	39
21	Investigation of carbon nanotube added dielectric on the surface characteristics and machining performance of Ti-6Al-4V alloy in EDM process. Journal of Manufacturing Processes, 2017, 25, 212-219.	2.8	117
22	Effects of hybrid electrical discharge machining processes on surface integrity and residual stresses of Ti-6Al-4V titanium alloy. International Journal of Advanced Manufacturing Technology, 2017, 93, 1999-2011.	1.5	43
23	Investigation into features of graphite nanofluid synthesized using electro discharge process. International Journal of Advanced Manufacturing Technology, 2017, 90, 1203-1216.	1.5	12
24	Microscopic and mechanical properties of semi-crystalline and amorphous polymeric parts produced by laser cutting. Journal of Applied Polymer Science, 2016, 133, .	1.3	11
25	Wire electrical discharge machining of ASP30 tool steel. Journal of Mechanical Science and Technology, 2016, 30, 3799-3804.	0.7	8
26	Investigation of the effects of magnetic field on near-dry electrical discharge machining performance. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 744-751.	1.5	25
27	A review on recent developments in machining methods based on electrical discharge phenomena. International Journal of Advanced Manufacturing Technology, 2016, 87, 2081-2097.	1.5	45
28	Novel approach towards finite element analysis of residual stresses in electrical discharge machining process. International Journal of Advanced Manufacturing Technology, 2016, 82, 1805-1814.	1.5	15
29	An inverse heat conduction method to determine the energy transferred to the workpiece in EDM process. International Journal of Advanced Manufacturing Technology, 2016, 83, 1037-1045.	1.5	7
30	Investigation of near dry EDM compared with wet and dry EDM processes. Journal of Mechanical Science and Technology, 2015, 29, 2213-2218.	0.7	50
31	The influence of dielectric media on nano-structured tungsten carbide (WC) powder synthesized by electro-discharge process. Advanced Powder Technology, 2014, 25, 937-945.	2.0	20
32	Investigating surface roughness, material removal rate and corrosion resistance in PMEDM of β -TiAl intermetallic. Journal of Manufacturing Processes, 2013, 15, 56-68.	2.8	85
33	Mathematical and numerical modeling of the effect of input-parameters on the flushing efficiency of plasma channel in EDM process. International Journal of Machine Tools and Manufacture, 2013, 65, 79-87.	6.2	124
34	Influence of Tool Material on the Electrical Discharge Machining of AISI H13 Tool Steel. Advanced Materials Research, 2012, 445, 988-993.	0.3	5
35	Numerical study on the dynamics of an electrical discharge generated vapor bubble in EDM with different shapes of the tool and the workpiece. International Journal of Advanced Manufacturing Technology, 2011, 56, 151-159.	1.5	13
36	Experimental investigation and 3D finite element prediction of the white layer thickness, heat affected zone, and surface roughness in EDM process. Journal of Mechanical Science and Technology, 2011, 25, 3173-3183.	0.7	49

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37	Ultrasonic assisted EDM: Effect of the workpiece vibration in the machining characteristics of FW4 Welded Metal. <i>Frontiers of Mechanical Engineering</i> , 2011, 6, 419.	2.5	8
38	Influence of Input Parameters on the Characteristics of the EDM Process. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2011, 57, 689-696.	0.6	55
39	Influence of EDM machining on surface integrity of WC-Co. , 2006, , 331-334.		6
40	Correlation of Input Parameters with Tool Material on the Output Parameters of Electrical Discharge Machining Process. <i>Advanced Materials Research</i> , 0, 445, 994-999.	0.3	1
41	Investigating the Effects of Powder Mixed Electrical Discharge Machining on the Surface Quality of TiAl Intermetallic. <i>Advanced Materials Research</i> , 0, 488-489, 396-401.	0.3	3