

Mohammad Yeakub Ali

List of Publications by Year in descending order

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101
papers

973
citations

489802

18
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620720

26
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104
all docs

104
docs citations

104
times ranked

748
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro Dry Wire EDM: Kerf Investigation using Response Surface Methodology. IOP Conference Series: Materials Science and Engineering, 2020, 926, 012002.	0.3	1
2	Analysis of kerf accuracy in dry micro-wire EDM. International Journal of Advanced Manufacturing Technology, 2020, 111, 597-608.	1.5	7
3	Effects of Different Relative Humidities on Flax Fibers prior to Manufacturing Their Composites Based on the Shear Response. Advances in Materials Science and Engineering, 2020, 2020, 1-7.	1.0	5
4	Stability of micro dry wire EDM: OFAT and DOE method. International Journal of Advanced Manufacturing Technology, 2020, 106, 4247-4261.	1.5	12
5	Analysis of Corner Radius in Dry Micro WEDM. International Journal of Mechanical Engineering and Robotics Research, 2020, , 158-162.	0.7	4
6	An Open Letter to All IJEMM Members on COVID-19. International Journal of Engineering Materials and Manufacture, 2020, 5, 1-1.	0.2	0
7	Investigation of process parameters for stable micro dry wire electrical discharge machining. International Journal of Advanced Manufacturing Technology, 2019, 103, 723-741.	1.5	9
8	Investigation of Taper Angle in Dry Micro Wire EDM. International Journal of Mechanical Engineering and Robotics Research, 2019, , 725-728.	0.7	4
9	Experimental study of electrical discharge drilling of stainless steel UNS S30400. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012067.	0.3	1
10	An Investigation of TIG welding parameters on microhardness and microstructure of heat affected zone of HSLA steel. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012041.	0.3	5
11	Influence of Wire Electrical Discharge Machining (WEDM) process parameters on surface roughness. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012019.	0.3	5
12	Tool Wear Mechanisms during Cutting of Soda Lime Glass. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012039.	0.3	1
13	Micro Electro Discharge Machining of Non-Conductive Ceramic. Materials Science Forum, 2018, 911, 20-27.	0.3	4
14	Influence of Nano Powder Mixed Dielectric Fluid on Surface Finish in Micro Electro Discharge Machining of Zirconia. Current Nanomaterials, 2018, 2, 90-94.	0.2	1
15	Micro Electro Discharge Machining of Nonconductive Ceramic: The Issue of Spalling. International Journal of Engineering and Technology(UAE), 2018, 7, 32.	0.2	0
16	Chip morphology as a performance predictor during high speed end milling of soda lime glass. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012037.	0.3	0
17	Machinability of Soda Lime Glass in High Speed End Milling. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012036.	0.3	0
18	Establishing Relationship between Process Parameters and Temperature during High Speed End Milling of Soda Lime Glass. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012038.	0.3	1

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19	Towards achieving nanofinish on silicon (Si) wafer by $\hat{1}$ / ₄ -wire electro-discharge machining. International Journal of Advanced Manufacturing Technology, 2018, 99, 3005-3015.	1.5	5
20	Surface morphology study in high speed milling of soda lime glass. AIP Conference Proceedings, 2018, , .	0.3	0
21	Dimensional Accuracy in Dry Micro Wire Electrical Discharge Machining. Journal of Mechanical Engineering and Sciences, 2018, 12, 3321-3329.	0.3	24
22	Micro Electro Discharge Machining for Nonconductive Ceramic Materials. International Journal of Engineering Materials and Manufacture, 2018, 3, 55-62.	0.2	2
23	Characterization of Carbon Nanotube Reinforced Aluminium Nano-composite using Field Emission Scanning Electron Microscope. International Journal of Engineering Materials and Manufacture, 2018, 3, 63-67.	0.2	2
24	Process Capability of High Speed Micro End-Milling of Inconel 718 with Minimum Quantity Lubrication. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012036.	0.3	4
25	Effects on Vibration and Surface Roughness in High Speed Micro End-Milling of Inconel 718 with Minimum Quantity Lubrication. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012037.	0.3	3
26	An Experimental Investigation on the Effect of Nanopowder for Micro-Wire Electro Discharge Machining of Gold Coated Silicon. Procedia Engineering, 2017, 184, 171-177.	1.2	7
27	Higher-order analytical solutions for the equation of motion of a particle on a rotating parabola. AIP Conference Proceedings, 2017, , .	0.3	0
28	High-order approximate solutions of strongly nonlinear cubic-quintic Duffing oscillator based on the harmonic balance method. Results in Physics, 2017, 7, 3962-3967.	2.0	22
29	Fe-C-Si ternary composite coating on CP-titanium and its tribological properties. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012013.	0.3	0
30	Influence of Ti addition on fracture behaviour of HSLA steel using TIG melting technique. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012053.	0.3	1
31	Micro Wire Electro Discharge Grinding: Optimization of Material Removal Rate and Surface Roughness. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012032.	0.3	0
32	Investigation of Kerf in Micro Wire Electro Discharge Machining. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012033.	0.3	2
33	Analytical approximations for the oscillators with anti-symmetric quadratic nonlinearity. Journal of Physics: Conference Series, 2017, 949, 012006.	0.3	0
34	Dimensional Accuracy of Micro-Electro Discharge Milling. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012034.	0.3	5
35	Electro-discharge machining of alumina: Investigation of material removal rate and surface roughness. Journal of Mechanical Engineering and Sciences, 2017, 11, 3015-3026.	0.3	5
36	Analysis of WEDM Process Parameters on Surface Roughness and Kerf using Taguchi Method. International Journal of Engineering Materials and Manufacture, 2017, 2, 103-109.	0.2	7

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37	EFFECT OF MINIMUM QUANTITY LUBRICATION ON SURFACE ROUGHNESS IN TOOL-BASED MICROMILLING. IJUM Engineering Journal, 2017, 18, 147-154.	0.5	2
38	Effect of variable particle size reinforcement on mechanical and wear properties of 6061Al ₁ Si ₂ composite. Composite Interfaces, 2016, 23, 533-547.	1.3	30
39	A novel analytical approximation technique for highly nonlinear oscillators based on the energy balance method. Results in Physics, 2016, 6, 496-504.	2.0	9
40	Electrical Discharge Machining (EDM): A Review. International Journal of Engineering Materials and Manufacture, 2016, 1, 3-10.	0.2	23
41	Exploration of EDM Assisted CNT in Micro Machining Using Statistical Approach. , 2015, , .		0
42	Analyzing and Modeling the Influence of Workpiece Thickness on Geometry of Slot Machining Wire EDMs. , 2015, , .		0
43	Wear Behaviour of TiC Coated AISI 4340 Steel Produced by TIG Surface Melting. Materials Science Forum, 2015, 819, 76-80.	0.3	12
44	Analyzing the Influence of Electrical Parameters on EDM Process of Ti6Al4V Alloy Using Adaptive Neuro-Fuzzy Inference System (ANFIS). International Review of Mechanical Engineering, 2015, 9, 237.	0.1	0
45	Improving micro-hardness of stainless steel through powder-mixed electrical discharge machining. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 3374-3380.	1.1	27
46	Micro-electro discharge machining of non-conductive zirconia ceramic: investigation of MRR and recast layer hardness. International Journal of Advanced Manufacturing Technology, 2014, 75, 257-267.	1.5	38
47	MICRO-EDM FOR MICRO-CHANNEL FABRICATION ON NONCONDUCTIVE ZrO ₂ CERAMIC. International Journal of Automotive and Mechanical Engineering, 2014, 10, 1841-1851.	0.5	6
48	Influence of electrical discharge machining process parameters on surface micro-hardness of titanium alloy. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 460-464.	1.5	39
49	Simulating the Electrical and Thermal Conductivity in EDM Die Sinking of Cu-TaC Compact Electrodes Using Neural Network. , 2013, , .		0
50	Investigation of Material Removal Characteristics in EDM of Nonconductive ZrO ₂ Ceramic. Procedia Engineering, 2013, 56, 696-701.	1.2	67
51	Influence of dielectric fluids on surface properties of electrical discharge machined titanium alloy. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 1310-1316.	1.5	30
52	Tool Vibration due to High Speed Micro End Milling Parameters. Applied Mechanics and Materials, 2013, 372, 364-368.	0.2	1
53	Investigation of Burr in High Speed Microdrilling. Applied Mechanics and Materials, 2013, 278-280, 389-392.	0.2	0
54	Investigation of surface roughness in micro-electro discharge machining of nonconductive ZrO ₂ for MEMS application. IOP Conference Series: Materials Science and Engineering, 2013, 53, 012090.	0.3	4

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55	Modelling the surface roughness behaviour of an EDMed workpiece with different tool electrodes using DoE. IOP Conference Series: Materials Science and Engineering, 2013, 53, 012002.	0.3	0
56	Investigation of Vibration and Surface Roughness in Micro Milling of PMMA. Applied Mechanics and Materials, 2012, 217-219, 2187-2193.	0.2	9
57	Cutting Force Impact to Tool Life of CT5015 in High Speed Machining by Applying Negative Rake Angles. Applied Mechanics and Materials, 2011, 117-119, 633-638.	0.2	0
58	A review of focused ion beam sputtering. International Journal of Precision Engineering and Manufacturing, 2010, 11, 157-170.	1.1	73
59	Comparative study of conventional and micro WEDM based on machining of meso/micro Sized Spur Gear. International Journal of Precision Engineering and Manufacturing, 2010, 11, 779-784.	1.1	39
60	Form Characterization of Microhole Produced by Microelectrical Discharge Drilling. Materials and Manufacturing Processes, 2009, 24, 683-687.	2.7	20
61	Investigation of finish cut of microelectrodischarge milling for nanosurface finish. Journal of Vacuum Science & Technology B, 2009, 27, 1330.	1.3	0
62	Investigation of machining parameters for the multiple-response optimization of micro electrodischarge milling. International Journal of Advanced Manufacturing Technology, 2009, 43, 264-275.	1.5	40
63	Effect of Conventional EDM Parameters on the Micromachined Surface Roughness and Fabrication of a Hot Embossing Master Microtool. Materials and Manufacturing Processes, 2009, 24, 454-458.	2.7	33
64	Experimental Study of Conventional Wire Electrical Discharge Machining for Microfabrication. Materials and Manufacturing Processes, 2008, 23, 641-645.	2.7	53
65	Geometrical integrity of micromold cavity sputtered by FIB using multilayer slicing approach. Microsystem Technologies, 2006, 13, 103-107.	1.2	6
66	Fabricating micromilling tool using wire electrodischarge grinding and focused ion beam sputtering. International Journal of Advanced Manufacturing Technology, 2006, 31, 501-508.	1.5	34
67	Characterisation of surface texture using AFM with trimmed probe tip. Surface Engineering, 2006, 22, 443-446.	1.1	4
68	Development of Microreplication Process—Micromolding. Materials and Manufacturing Processes, 2003, 18, 731-751.	2.7	18
69	Sidewall Surface Roughness of Sputtered Silicon I: Surface Modelling. Surface Engineering, 2003, 19, 97-103.	1.1	8
70	Sidewall Surface Roughness of Sputtered Silicon II: Model Verification. Surface Engineering, 2003, 19, 104-108.	1.1	8
71	Focused ion beam machining of silicon. Journal of Materials Processing Technology, 2002, 127, 256-260.	3.1	23
72	SURFACE ROUGHNESS OF SPUTTERED SILICON. I. SURFACE MODELING. Materials and Manufacturing Processes, 2001, 16, 297-313.	2.7	12

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73	SURFACE ROUGHNESS OF SPUTTERED SILICON. II. MODEL VERIFICATION. Materials and Manufacturing Processes, 2001, 16, 315-329.	2.7	13
74	SURFACE INTEGRITY AND REMOVAL RATE OF SILICON SPUTTERED WITH FOCUSED ION BEAM. Machining Science and Technology, 2001, 5, 239-254.	1.4	7
75	<title>Mathematical modeling of sputtering-induced surface roughness</title>. , 2001, , .		1
76	<title>Development of a micromolding process</title>. , 2001, 4408, 317.		2
77	<title>Producing LIGA-competitive microcomponents</title>. , 2000, , .		2
78	Transient Non-linear FEA and TMF Life Estimates of Cast Exhaust Manifolds. , 0, , .		18
79	Prediction of Burr Formation in Fabricating MEMS Components by Micro End Milling. Advanced Materials Research, 0, 74, 247-250.	0.3	7
80	Powder Mixed Micro Electro Discharge Milling of Titanium Alloy: Investigation of Material Removal Rate. Advanced Materials Research, 0, 383-390, 1759-1763.	0.3	7
81	Powder Mixed Micro Electro Discharge Milling of Titanium Alloy: Analysis of Surface Roughness. Advanced Materials Research, 0, 341-342, 142-146.	0.3	6
82	Fabrication of Silicon Nanopillar Sheet for Cell Culture Dish. Advanced Materials Research, 0, 264-265, 1352-1356.	0.3	0
83	Rheological and Thermal Behaviour of High Impact Polystyrene Nanocomposite. Advanced Materials Research, 0, 383-390, 3849-3853.	0.3	1
84	Effect of Process Parameters on Abrasive Contamination during Water Abrasive Jet Machining of Mild Steel. Advanced Materials Research, 0, 264-265, 1015-1020.	0.3	1
85	Investigation of Microholes Produced by Focused Ion Beam Micromachining. Advanced Materials Research, 0, 264-265, 1346-1351.	0.3	1
86	Application of Focused Ion Beam Micromachining: A Review. Advanced Materials Research, 0, 576, 507-510.	0.3	6
87	Mechanical Performance and Water Absorption Resistance of HIPS/MWCNTs Nanocomposite. Advanced Materials Research, 0, 576, 421-424.	0.3	0
88	Aluminum-Silicon Carbide Composites for Enhanced Physio-Mechanical Properties. Advanced Materials Research, 0, 576, 370-373.	0.3	9
89	Formation of Nitrides and Carbides on Titanium Alloy Surface through EDM. Advanced Materials Research, 0, 576, 7-10.	0.3	8
90	Influence of Energy Parameters of Micro WEDM on Kerf. Advanced Materials Research, 0, 576, 527-530.	0.3	1

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91	Tool Wear Analysis in End Milling of Advanced Ceramics with TiAlN and TiN Coated Carbide Inserts. Advanced Materials Research, 0, 576, 76-79.	0.3	1
92	Applying Value Stream Mapping for Productivity Improvement of a Metal Stamping Industry. Advanced Materials Research, 0, 576, 727-730.	0.3	2
93	Electro-Discharge Machining of SUS 304 Stainless Steel with TaC Powder-Mixed Dielectric. Advanced Materials Research, 0, 576, 72-75.	0.3	15
94	Effect of Ball Milling Parameters on the Synthesization of Carbon Nanotube Aluminium Nano Composite. Advanced Materials Research, 0, 626, 537-541.	0.3	2
95	Surface Modification by EDM Using Co-Cr Sintered Powder Metallurgy Electrode. Advanced Materials Research, 0, 576, 56-59.	0.3	2
96	Effect of Peak Current on Material Removal Rate for Electrical Discharge Machining of Non-Conductive Al_2O_3 Ceramic. Advanced Materials Research, 0, 845, 730-734.	0.3	19
97	Investigation of Recast Layer of Non-Conductive Ceramic due to Micro-EDM. Advanced Materials Research, 0, 845, 857-861.	0.3	2
98	Effect of Micro-EDM Parameters on Material Removal Rate of Nonconductive ZrO_2 Ceramic. Applied Mechanics and Materials, 0, 465-466, 1329-1333.	0.2	2
99	Modelling of Material Removal Rate in EDM of Nonconductive ZrO_2 Ceramic by Taguchi Method. Applied Mechanics and Materials, 0, 393, 246-252.	0.2	8
100	Investigation of Surface Roughness in Micro-EDM of Nonconductive ZrO_2 Ceramic with Powder Mixed Dielectric Fluid. Advanced Materials Research, 0, 1115, 16-19.	0.3	7
101	Precision Control of Kerf in Metal Cutting Using Dry Micro WEDM: Issues and Challenges. Key Engineering Materials, 0, 775, 499-505.	0.4	4