

# Ahmed A D Sarhan

## List of Publications by Year in descending order

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148  
papers

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citations

71061

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148  
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times ranked

4001  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomedical materials and techniques to improve the tribological, mechanical and biomedical properties of orthopedic implants – A review article. Journal of Alloys and Compounds, 2017, 714, 636-667.	2.8	239
2	Novel uses of SiO <sub>2</sub> nano-lubrication system in hard turning process of hardened steel AISI4140 for less tool wear, surface roughness and oil consumption. Journal of Cleaner Production, 2014, 67, 265-276.	4.6	204
3	Morphology of surface generated by end milling AL6061-T6 using molybdenum disulfide (MoS <sub>2</sub> ) nanolubrication in end milling machining. Journal of Cleaner Production, 2014, 66, 685-691.	4.6	181
4	Investigating the Minimum Quantity Lubrication in grinding of Al <sub>2</sub> O <sub>3</sub> engineering ceramic. Journal of Cleaner Production, 2014, 66, 632-643.	4.6	131
5	An optimization method of the machining parameters in high-speed machining of stainless steel using coated carbide tool for best surface finish. International Journal of Advanced Manufacturing Technology, 2012, 58, 81-91.	1.5	116
6	Investigation on the morphology of the machined surface in end milling of aerospace AL6061-T6 for novel uses of SiO <sub>2</sub> nanolubrication system. Journal of Cleaner Production, 2014, 66, 655-663.	4.6	109
7	An investigation of optimum SiO <sub>2</sub> nanolubrication parameters in end milling of aerospace AL6061-T6 alloy. International Journal of Advanced Manufacturing Technology, 2013, 67, 833-849.	1.5	107
8	State of the art in powder mixed dielectric for EDM applications. Precision Engineering, 2016, 46, 11-33.	1.8	107
9	Reduction of power and lubricant oil consumption in milling process using a new SiO <sub>2</sub> nanolubrication system. International Journal of Advanced Manufacturing Technology, 2012, 63, 505-512.	1.5	104
10	Plasma thermal spray of ceramic oxide coating on carbon steel with enhanced wear and corrosion resistance for oil and gas applications. Ceramics International, 2014, 40, 14267-14277.	2.3	97
11	Characterization of biogenic hydroxyapatite derived from animal bones for biomedical applications. Ceramics International, 2018, 44, 10525-10530.	2.3	95
12	Cutting force reduction and surface quality improvement in machining of aerospace duralumin AL-2017-T4 using carbon onion nanolubrication system. International Journal of Advanced Manufacturing Technology, 2013, 65, 1493-1500.	1.5	93
13	Investigating the optimum molybdenum disulfide (MoS <sub>2</sub> ) nanolubrication parameters in CNC milling of AL6061-T6 alloy. International Journal of Advanced Manufacturing Technology, 2014, 70, 1143-1155.	1.5	88
14	Investigating the electrical discharge machining (EDM) parameter effects on Al-Mg <sub>2</sub> Si metal matrix composite (MMC) for high material removal rate (MRR) and less EWR – RSM approach. International Journal of Advanced Manufacturing Technology, 2015, 77, 831-838.	1.5	87
15	Review of improvements in wire electrode properties for longer working time and utilization in wire EDM machining. International Journal of Advanced Manufacturing Technology, 2015, 76, 329-351.	1.5	84
16	Ceramic tantalum oxide thin film coating to enhance the corrosion and wear characteristics of Ti 6Al 4V alloy. Journal of Alloys and Compounds, 2016, 676, 369-376.	2.8	83
17	Development of tantalum oxide (Ta-O) thin film coating on biomedical Ti-6Al-4V alloy to enhance mechanical properties and biocompatibility. Ceramics International, 2016, 42, 466-480.	2.3	83
18	The tribological and electrochemical behavior of HVOF-sprayed Cr <sub>3</sub> C <sub>2</sub> – NiCr ceramic coating on carbon steel. Ceramics International, 2015, 41, 5387-5396.	2.3	80

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19	Fuzzy logic based model for predicting surface roughness of machined Al-Si-Cu-Fe die casting alloy using different additives-turning. Measurement: Journal of the International Measurement Confederation, 2015, 61, 150-161.	2.5	80
20	Comparison between microwave and conventional sintering on the properties and microstructural evolution of tetragonal zirconia. Ceramics International, 2018, 44, 8922-8927.	2.3	79
21	Interrelationships between cutting force variation and tool wear in end-milling. Journal of Materials Processing Technology, 2001, 109, 229-235.	3.1	76
22	Investigating the effects of liquid atomization and delivery parameters of minimum quantity lubrication on the grinding process of Al <sub>2</sub> O <sub>3</sub> engineering ceramics. Journal of Manufacturing Processes, 2013, 15, 374-388.	2.8	76
23	Employing Ti nano-powder dielectric to enhance surface characteristics in electrical discharge machining of AISI D2 steel. Applied Surface Science, 2015, 357, 892-907.	3.1	74
24	Enhancing the tribo-mechanical properties of aerospace AL7075-T6 by magnetron-sputtered Ti/TiN, Cr/CrN & TiCr/TiCrN thin film ceramic coatings. Ceramics International, 2014, 40, 15603-15615.	2.3	72
25	Optimization of cutting conditions for minimum residual stress, cutting force and surface roughness in end milling of S50C medium carbon steel. Measurement: Journal of the International Measurement Confederation, 2016, 86, 253-265.	2.5	70
26	Investigating the Machinability of Al-Si-Cu cast alloy containing bismuth and antimony using coated carbide insert. Measurement: Journal of the International Measurement Confederation, 2015, 62, 170-178.	2.5	68
27	The influence of higher surface hardness on fretting fatigue life of hard anodized aerospace AL7075-T6 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 560, 377-387.	2.6	67
28	Micro-electrode fabrication processes for micro-EDM drilling and milling: a state-of-the-art review. International Journal of Advanced Manufacturing Technology, 2017, 91, 1023-1056.	1.5	67
29	Optimizing cutting parameters in inclined end milling for minimum surface residual stress – Taguchi approach. Measurement: Journal of the International Measurement Confederation, 2015, 60, 267-275.	2.5	63
30	Electrical and optical properties of indium-tin oxide (ITO) films by ion-assisted deposition (IAD) at room temperature. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1465-1469.	1.1	61
31	Effect of two-step sintering on the hydrothermal ageing resistance of tetragonal zirconia polycrystals. Ceramics International, 2017, 43, 7594-7599.	2.3	59
32	Increasing the productivity of the wire-cut electrical discharge machine associated with sustainable production. Journal of Cleaner Production, 2015, 108, 247-255.	4.6	52
33	A Comprehensive Review on Machining of Titanium Alloys. Arabian Journal for Science and Engineering, 2021, 46, 7087-7123.	1.7	51
34	Optimizing the PVD TiN thin film coating's parameters on aerospace AL7075-T6 alloy for higher coating hardness and adhesion with better tribological properties of the coating surface. International Journal of Advanced Manufacturing Technology, 2013, 64, 281-290.	1.5	50
35	Investigation of the effect of machining parameters on the surface quality of machined brass (60/40) in CNC end milling – ANFIS modeling. International Journal of Advanced Manufacturing Technology, 2014, 74, 531-537.	1.5	50
36	Development of new fabrication and measurement techniques of micro-electrodes with high aspect ratio for micro EDM using typical EDM machine. Measurement: Journal of the International Measurement Confederation, 2017, 97, 64-78.	2.5	49

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37	Cutting force-based adaptive neuro-fuzzy approach for accurate surface roughness prediction in end milling operation for intelligent machining. International Journal of Advanced Manufacturing Technology, 2015, 76, 1459-1467.	1.5	48
38	A fuzzy logic based model to predict surface hardness of thin film TiN coating on aerospace AL7075-T6 alloy. International Journal of Advanced Manufacturing Technology, 2013, 68, 415-423.	1.5	47
39	Development of SiO <sub>2</sub> nanolubrication system to be used in sliding bearings. International Journal of Advanced Manufacturing Technology, 2014, 71, 1277-1284.	1.5	47
40	Ultrasonic assisted grinding of advanced materials for biomedical and aerospace applications—a review. International Journal of Advanced Manufacturing Technology, 2017, 92, 3825-3858.	1.5	45
41	Enhancing the adhesion strength of tantalum oxide ceramic thin film coating on biomedical Ti-6Al-4V alloy by thermal surface treatment. Ceramics International, 2015, 41, 13055-13063.	2.3	44
42	Microstructure characterization and maximization of the material removal rate in nano-powder mixed EDM of Al-Mg <sub>2</sub> Si metal matrix composite—ANFIS and RSM approaches. International Journal of Advanced Manufacturing Technology, 2019, 101, 2723-2737.	1.5	42
43	Fabrication and deformation behaviour of multilayer Al <sub>2</sub> O <sub>3</sub> /Ti/TiO <sub>2</sub> nanotube arrays. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 20, 272-282.	1.5	39
44	Improve wire EDM performance at different machining parameters - ANFIS modeling. IFAC-PapersOnLine, 2015, 48, 105-110.	0.5	38
45	Fuzzy logic-based approach to investigate the novel uses of nano suspended lubrication in precise machining of aerospace AL tempered grade 6061. Journal of Cleaner Production, 2015, 89, 286-295.	4.6	35
46	Tribological performance of SiO <sub>2</sub> -based nanofluids in minimum quantity lubrication grinding of Si <sub>3</sub> N <sub>4</sub> ceramic. Journal of Manufacturing Processes, 2019, 41, 135-147.	2.8	35
47	Electrochemical corrosion behavior of carbon steel pipes coated with a protective ceramic layer using plasma and HVOF thermal spray techniques for oil and gas. Ceramics International, 2016, 42, 3397-3406.	2.3	34
48	Analysis of corrosion protection behavior of Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> oxide ceramic coating on carbon steel pipes for petroleum industry. Ceramics International, 2018, 44, 5967-5975.	2.3	34
49	An optimization technique on ultrasonic and cutting parameters for drilling and deep drilling of nickel-based high-strength Inconel 738LC superalloy with deeper and higher hole quality. International Journal of Advanced Manufacturing Technology, 2016, 82, 877-888.	1.5	33
50	Enhancement and verification of a machined surface quality for glass milling operation using CBN grinding tool—Taguchi approach. International Journal of Advanced Manufacturing Technology, 2012, 60, 939-950.	1.5	31
51	Analytical modeling of grinding wheel loading phenomena. International Journal of Advanced Manufacturing Technology, 2013, 68, 473-485.	1.5	30
52	Investigating the fretting fatigue life of thin film titanium nitride coated aerospace Al7075-T6 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 436-446.	2.6	30
53	Analysis of tool deflection errors in precision CNC end milling of aerospace Aluminum 6061-T6 alloy. Measurement: Journal of the International Measurement Confederation, 2018, 125, 476-495.	2.5	30
54	Employment of fiber laser technology to weld austenitic stainless steel 304 l with aluminum alloy 5083 using pre-placed activating flux. Materials and Design, 2015, 87, 105-123.	3.3	28

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55	Surface hardness prediction of CrN thin film coating on AL7075-T6 alloy using fuzzy logic system. International Journal of Precision Engineering and Manufacturing, 2013, 14, 467-473.	1.1	27
56	Monitoring Method of Cutting Force by Using Additional Spindle Sensors. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2006, 49, 307-315.	0.3	26
57	Mechanical Property Enhancement of Ti-6Al-4V by Multilayer Thin Solid Film Ti/TiO <sub>2</sub> Nanotubular Array Coating for Biomedical Application. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 785-797.	1.1	26
58	Characterization and hardness enhancement of amorphous Fe-based metallic glass laser cladded on nickel-free stainless steel for biomedical implant application. Materials Chemistry and Physics, 2019, 235, 121745.	2.0	26
59	Prediction of TiN coating adhesion strength on aerospace AL7075-T6 alloy using fuzzy rule based system. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1453-1459.	1.1	25
60	Investigation on using high-pressure fluid jet in grinding process for less wheel loaded areas. International Journal of Advanced Manufacturing Technology, 2014, 70, 2233-2240.	1.5	24
61	Grinding Wheel Loading Evaluation Using Digital Image Processing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	1.3	23
62	Statistical optimization and fretting fatigue study of Zr/ZrO <sub>2</sub> nanotubular array coating on Ti-6Al-4V. Surface and Coatings Technology, 2014, 258, 979-990.	2.2	23
63	Measuring of positioning, circularity and static errors of a CNC Vertical Machining Centre for validating the machining accuracy. Measurement: Journal of the International Measurement Confederation, 2015, 61, 39-50.	2.5	23
64	Development and protection evaluation of two new, advanced ceramic composite thermal spray coatings, Al <sub>2</sub> O <sub>3</sub> -40TiO <sub>2</sub> and Cr <sub>3</sub> C <sub>2</sub> -20NiCr on carbon steel petroleum oil piping. Ceramics International, 2016, 42, 5203-5210.	2.3	23
65	A new approach to evaluate the impact of thermophysical properties of nanofluids on heat transfer and pressure drop. International Communications in Heat and Mass Transfer, 2018, 95, 161-170.	2.9	23
66	An investigation of heat transfer and fluid flow on laser micro-welding upon the thin stainless steel sheet (SUS304) using computational fluid dynamics (CFD). International Communications in Heat and Mass Transfer, 2016, 75, 328-340.	2.9	22
67	Improving teleoperation system performance in the presence of estimated external force. Robotics and Computer-Integrated Manufacturing, 2017, 46, 86-93.	6.1	22
68	Comparative study on the performance of the MQL nanolubricant and conventional flood lubrication techniques during grinding of Si <sub>3</sub> N <sub>4</sub> ceramic. International Journal of Advanced Manufacturing Technology, 2018, 96, 3959-3976.	1.5	22
69	Developing a new laser cladded FeCrMoCB metallic glass layer on nickel-free stainless-steel as a potential superior wear-resistant coating for joint replacement implants. Surface and Coatings Technology, 2020, 392, 125755.	2.2	22
70	Sensor-less force-reflecting macro-micro telemanipulation systems by piezoelectric actuators. ISA Transactions, 2016, 64, 293-302.	3.1	21
71	Comparative study between wear of uncoated and TiAlN-coated carbide tools in milling of Ti6Al4V. Advances in Manufacturing, 2017, 5, 83-91.	3.2	21
72	Advancement of the artificial amorphous-crystalline structure of laser cladded FeCrMoCB on nickel-free stainless-steel for bone-implants. Materials Chemistry and Physics, 2019, 227, 358-367.	2.0	21

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73	Morphology investigation of worn bearing surfaces using SiO <sub>2</sub> nanolubrication system. International Journal of Advanced Manufacturing Technology, 2014, 70, 1063-1071.	1.5	20
74	Design and experimental evaluation of a precise and compact tubular ultrasonic motor driven by a single-phase source. Precision Engineering, 2017, 48, 172-180.	1.8	20
75	Measure and evaluate the hardness of the electrodeposited Nickel-Phosphorous (Ni-P) thin film coating on carbon steel alloy for automotive applications. Measurement: Journal of the International Measurement Confederation, 2019, 139, 490-497.	2.5	20
76	A Study on Surface Modification of Al7075-T6 Alloy against Fretting Fatigue Phenomenon. Advances in Materials Science and Engineering, 2014, 2014, 1-17.	1.0	19
77	White layer thickness prediction in wire-EDM using CuZn-coated wire electrode " ANFIS modelling. Transactions of the Institute of Metal Finishing, 2016, 94, 204-210.	0.6	19
78	Performance evaluation of latent heat energy storage in horizontal shell-and-finned tube for solar application. Journal of Thermal Analysis and Calorimetry, 2016, 123, 1371-1381.	2.0	19
79	Prediction of specific grinding forces and surface roughness in machining of AL6061-T6 alloy using ANFIS technique. Industrial Lubrication and Tribology, 2019, 71, 309-317.	0.6	19
80	Optimizing the cutting parameters for better surface quality in 2.5D cutting utilizing titanium coated carbide ball end mill. International Journal of Precision Engineering and Manufacturing, 2012, 13, 2097-2102.	1.1	18
81	Investigating the effects of hard anodizing parameters on surface hardness of hard anodized aerospace AL7075-T6 alloy using fuzzy logic approach for fretting fatigue application. International Journal of Advanced Manufacturing Technology, 2013, 68, 453-464.	1.5	18
82	A new fretting fatigue testing machine design, utilizing rotating "bending principle approach. International Journal of Advanced Manufacturing Technology, 2014, 70, 2211-2219.	1.5	18
83	Multilayer thin film CrN coating on aerospace AL7075-T6 alloy for surface integrity enhancement. International Journal of Advanced Manufacturing Technology, 2014, 72, 1491-1502.	1.5	18
84	Investigation about the characterization of machine tool spindle stiffness for intelligent CNC end milling. Robotics and Computer-Integrated Manufacturing, 2015, 34, 133-139.	6.1	18
85	Hard Anodizing of Aerospace AA7075-T6 Aluminum Alloy for Improving Surface Properties. Transactions of the Indian Institute of Metals, 2019, 72, 2773-2781.	0.7	18
86	Robust control-based linear bilateral teleoperation system without force sensor. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 579-587.	0.8	17
87	Numerical simulation of metal removal in laser drilling using radial point interpolation method. Engineering Analysis With Boundary Elements, 2017, 77, 89-96.	2.0	17
88	Influence of grinding parameters on phase transformation, surface roughness, and grinding cost of bioceramic partially stabilized zirconia (PSZ) using diamond grinding wheel. International Journal of Advanced Manufacturing Technology, 2019, 105, 4715-4729.	1.5	17
89	Disturbance rejection-based robust control for micropositioning of piezoelectric actuators. Comptes Rendus - Mecanique, 2014, 342, 32-45.	2.1	16
90	Multi-objective selection and structural optimization of the gantry in a gantry machine tool for improving static, dynamic, and weight and cost performance. Concurrent Engineering Research and Applications, 2016, 24, 83-93.	2.0	16

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91	ANFIS modeling to predict the friction forces in CNC guideways and servomotor currents in the feed drive system to be employed in lubrication control system. Journal of Manufacturing Processes, 2017, 28, 168-185.	2.8	16
92	Effect of microwave sintering on the properties of copper oxide doped Y-TZP ceramics. Ceramics International, 2018, 44, 19639-19645.	2.3	16
93	Fretting fatigue life evaluation of multilayer Crâ€“CrN-coated Al7075-T6 with higher adhesion strengthâ€“fuzzy logic approach. International Journal of Advanced Manufacturing Technology, 2013, 69, 1153-1164.	1.5	15
94	Designing and manufacturing an automated lubrication control system in CNC machine tool guideways for more precise machining and less oil consumption. International Journal of Advanced Manufacturing Technology, 2014, 70, 1081-1090.	1.5	15
95	Wettability, structural and optical properties investigation of TiO2 nanotubular arrays. Materials Research Bulletin, 2016, 78, 179-185.	2.7	15
96	Comparative study on the corrosion and wear behavior of plasma-sprayed vs. high velocity oxygen fuel-sprayed Al8Si20BN ceramic coatings. Ceramics International, 2018, 44, 12180-12193.	2.3	15
97	Investigate the effects of the substrate surface roughness on the geometry, phase transformation, and hardness of laser-cladded Fe-based metallic glass coating. International Journal of Advanced Manufacturing Technology, 2018, 98, 1977-1987.	1.5	15
98	CFD modelling of weld pool formation and solidification in a laser micro-welding process. International Communications in Heat and Mass Transfer, 2019, 101, 58-69.	2.9	15
99	Investigating the surface quality of the burnished brass C3605â€“fuzzy rule-based approach. International Journal of Advanced Manufacturing Technology, 2014, 71, 1143-1150.	1.5	14
100	Design and manufacturing of ultrasonic motor with in-plane and out-of-plane bending vibration modes of rectangular plate with large contact area. Measurement: Journal of the International Measurement Confederation, 2017, 109, 425-431.	2.5	14
101	Numerical simulation of metal removal in laser drilling using meshless local Petrovâ€“Galerkin collocation method. Applied Mathematical Modelling, 2018, 56, 239-253.	2.2	13
102	Investigate the spindle errors motions from thermal change for high-precision CNC machining capability. International Journal of Advanced Manufacturing Technology, 2014, 70, 957-963.	1.5	12
103	A fuzzy logic predictive model for better surface roughness of Tiâ€“TiN coating on AL7075-T6 alloy for longer fretting fatigue life. Measurement: Journal of the International Measurement Confederation, 2014, 49, 256-265.	2.5	12
104	Employing severe plastic deformation to the processing of electrical discharge machining electrodes. Precision Engineering, 2016, 46, 309-322.	1.8	12
105	Cutting force analysis to estimate the friction force in linear guideways of CNC machine. Measurement: Journal of the International Measurement Confederation, 2016, 85, 65-79.	2.5	12
106	1.9 Effect of Electrical Discharge Energy on White Layer Thickness of WEDM Process. , 2017, , 231-266.		12
107	Proposing a new performance index to identify the effect of spark energy and pulse frequency simultaneously to achieve high machining performance in WEDM. International Journal of Advanced Manufacturing Technology, 2017, 91, 433-443.	1.5	11
108	Indoor Solar Thermal Energy Saving Time with Phase Change Material in a Horizontal Shell and Finned-Tube Heat Exchanger. Scientific World Journal, The, 2015, 2015, 1-7.	0.8	10

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109	Numerical simulation of metal removal in laser drilling using symmetric smoothed particle hydrodynamics. <i>Precision Engineering</i> , 2017, 49, 69-77.	1.8	10
110	Compensation Method of the Machine Tool Spindle Thermal Displacement for Accurate Monitoring of Cutting Forces. <i>Materials and Manufacturing Processes</i> , 2011, 26, 1511-1521.	2.7	9
111	Novel uses of SiO <sub>2</sub> nanolubrication in end milling of medium carbon steel for higher compressive residual stress measured by high-energy X-ray diffraction data. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2016, 230, 697-708.	1.0	9
112	Experimentalâ€“numerical study on minimizing impact induced damage in laminated composites under low-velocity impact. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 155-165.	1.6	9
113	Fuzzy logic method to investigate grinding of alumina ceramic using minimum quantity lubrication. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1668-1683.	1.1	9
114	Experimental Study on Minimizing Edge Chipping in Glass Milling Operation Using an Internal CBN Grinding Tool. <i>Materials and Manufacturing Processes</i> , 2011, 26, 969-976.	2.7	8
115	Adaptive neuro-fuzzy approach to predict tool wear accurately in turning operations for maximum cutting tool utilization. <i>IFAC-PapersOnLine</i> , 2015, 48, 93-98.	0.5	7
116	Investigating the Tribological Characteristics of Burnished Polyoxymethyleneâ€”ANFIS and FE Modeling. <i>Tribology Transactions</i> , 2018, 61, 880-888.	1.1	7
117	In-vitro viability of laser clad Fe-based metallic glass as a promising bioactive material for improved osseointegration of orthopedic implants. <i>Medical Engineering and Physics</i> , 2022, 102, 103782.	0.8	7
118	A novel rate-dependent hysteresis modeling and position control technique for piezo-actuated bimorph beams. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 1802-1813.	1.4	6
119	Development and evaluation of the machining performance of a CNC gantry double motion machine tool in different modes. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 1347-1356.	1.5	6
120	1.7 Techniques to Improve EDM Capabilities: A Review. , 2017, , 171-202.		6
121	Surface integrity and flexural strength improvement in grinding partially stabilized zirconia. <i>Journal of Central South University</i> , 2019, 26, 3261-3278.	1.2	6
122	Continuous dynamic modelling of bimorph piezoelectric cantilevered actuators considering hysteresis effect and dynamic behaviour analysis. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2015, 21, 130-152.	1.4	5
123	Wire Rupture Optimization in Wire Electrical Discharge Machining using Taguchi Approach. <i>MATEC Web of Conferences</i> , 2017, 95, 07014.	0.1	5
124	Characterizing the Effects of Micro Electrical Discharge Machining Parameters on Material Removal Rate during Micro EDM Drilling of Tungsten Carbide (WC-Co). <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 241, 012005.	0.3	5
125	Dissimilar vacuum brazing of WC-Co and cold work steel utilizing a new near-eutectic silver-copper filler alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020, 234, 1019-1031.	1.5	5
126	Investigating the Possibility to Reduce the Residual Stress Level in 2.5D Cutting Using Titanium Coated Carbide Ball End Mill. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-13.	1.0	4



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127	Transparency Improvement by External Force Estimation in a Time-Delayed Nonlinear Bilateral Teleoperation System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	4
128	Nonlinear Dynamic Analysis of a New Antibacklash Gear Mechanism Design for Reducing Dynamic Transmission Error. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	1.7	4
129	Investigating the Surface Tribology of Roller-Burnished Polymer Using the Fuzzy Rule-Based Approach. Tribology Transactions, 2015, 58, 240-246.	1.1	4
130	Modified robust external force control with disturbance rejection with application to piezoelectric actuators. Transactions of the Institute of Measurement and Control, 2015, 37, 131-143.	1.1	4
131	Deposition of a Silicon Carbide Reinforced Metal Matrix Composite (P25) Layer Using CO2 Laser. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	1.3	3
132	Development of a New Cost Performance Index (CPI) for Selecting the Most Suitable Wire Electrode in Wire-EDM Machining. Arabian Journal for Science and Engineering, 2021, 46, 12465-12478.	1.7	3
133	Investigate the Effects of the Laser Cladding Parameters on the Microstructure, Phases Formation, Mechanical and Corrosion Properties of Metallic Glasses Coatings for Biomedical Implant Application. , 2019, , 299-323.		3
134	Optimizing the Machining Parameters in Glass Grinding Operation on the CNC Milling Machine for Best Surface Roughness. Advanced Materials Research, 2010, 154-155, 721-726.	0.3	2
135	&lt;sup>&lt;/sup>Investigate the Lubrication Effects on Cutting Force and Power Consumption in Up and Down End Milling. Advanced Materials Research, 0, 748, 264-268.	0.3	2
136	Effects of Laser Cladding of Silicon Carbides Particles and Iron Based Powder. Applied Mechanics and Materials, 0, 548-549, 289-293.	0.2	2
137	Thermally induced crystallization of mechanically alloyed Na0.5Bi0.5TiO3 and K0.5Bi0.5TiO3 piezoelectric ceramic nanopowders. Ceramics International, 2015, 41, 14157-14164.	2.3	2
138	Performance of Electrical Discharge Milling and Sinking in Micro Graphite Powder Mixed Dielectric. Materials Science Forum, 2017, 900, 127-130.	0.3	2
139	1.10 Micro-EDM Drilling of Tungsten Carbide Using Microelectrode with High Aspect Ratio to Improve MRR, EWR, and Hole Quality. , 2017, , 267-321.		2
140	Development of SiO<sub>&lt;/sub>&lt;/sub> Nanolubrication System for Better Surface Quality, more Power Savings and Less Oil Consumption in Hard Turning of Hardened Steel AISI4140. Advanced Materials Research, 0, 748, 56-60.	0.3	1
141	Processing of Titanium by Machining: A Closer Look Into Performance Metrics in Bio-Fabrications. , 2017, , .		1
142	Surface Quality Improvement in CNC End Milling of Aluminum Alloy Using Nanolubrication System. Lecture Notes in Electrical Engineering, 2013, , 669-683.	0.3	1
143	ANFIS Modeling for Higher Machining Performance of Aluminium Tempered Grade 6061 Using Novel SiO2 Nanolubrication. , 2015, , 551-565.		1
144	Investigation into Effect of Cutting Conditions on Surface Roughness while Dry Machining Al-11%Si and Al-11%Si-1% Bi Die Casting Alloy. Advanced Materials Research, 0, 1119, 617-621.	0.3	0

#	ARTICLE	IF	CITATIONS
145	Introducing New Coating Material Alloy with Potential Elements for High Corrosion Resistance for Oil and Gas Application. , 2016, , .		0
146	High-Precision Machining by Measuring and Compensating the Error Motion of Spindle's Axis of Rotation in Radial Direction. Lecture Notes in Electrical Engineering, 2013, , 347-359.	0.3	0
147	Fuzzy Logic Modeling for Higher Adhesion Strength of Cr/Cr-N Multilayer Thin Film Coating on Aerospace AL7075-T6 Alloy for Higher Fretting Fatigue Life. , 2014, , 291-304.		0
148	Electromechanical Modeling and High Speed Design of a Tubular Ultrasonic Motor. , 2019, 24, 253-261.		0