

Erween Abd Rahim

List of Publications by Year in descending order

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101
papers

2,263
citations

257101

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105
all docs

105
docs citations

105
times ranked

1435
citing authors

#	ARTICLE	IF	CITATIONS
1	High speed cryogenic drilling of Ti-6Al-4V alloy under high pressure coolant conditions. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2022, 236, 1633-1642.	1.5	2
2	Effect of ZnO nanoparticles concentration as additives to the epoxidized Euphorbia Lathyris oil and their tribological characterization. Fuel, 2021, 285, 119148.	3.4	55
3	Performance Evaluation of Countersink Drilling of Carbon Fiber Reinforced Polymer (CFRP). Lecture Notes in Mechanical Engineering, 2021, , 537-545.	0.3	0
4	Effect of End Mill Geometry and Coolant Strategies on Machining Performance of Nickel Based Alloy Inconel 718. Lecture Notes in Mechanical Engineering, 2021, , 311-318.	0.3	0
5	Case Study on Life Cycle Assessment of Car Fenders (Steel Versus Polymer). Lecture Notes in Mechanical Engineering, 2021, , 299-310.	0.3	0
6	The Effect of Laser Beam Parameters on Welding Quality of Nitinol Alloys. Lecture Notes in Mechanical Engineering, 2021, , 219-227.	0.3	0
7	Recent advances on high performance machining of aerospace materials and composites using vegetable oil-based metal working fluids. Journal of Cleaner Production, 2021, 310, 127459.	4.6	27
8	Evaluation of End Mill Geometry When Machining Nickel Based Alloys. Lecture Notes in Mechanical Engineering, 2021, , 289-298.	0.3	1
9	Prediction of performance and emission parameters of Kusum biodiesel based diesel engine using neuro-fuzzy techniques combined with genetic algorithm. Fuel, 2020, 280, 118629.	3.4	32
10	Michelia Champaca: Sustainable novel non-edible oil as nano based bio-lubricant with tribological investigation. Fuel, 2020, 282, 118830.	3.4	35
11	CO2 Laser Cutting Performance on Ultra High Strength Steel (UHSS). Lasers in Manufacturing and Materials Processing, 2020, 7, 15-37.	1.2	5
12	Green Metalworking Fluids for sustainable machining applications: A review. Journal of Cleaner Production, 2020, 257, 120552.	4.6	92
13	Machinability Performance of RBD Palm Oil as a Bio Degradable Dielectric Fluid on Sustainable Electrical Discharge Machining (EDM) of AISI D2 Steel. Lecture Notes in Mechanical Engineering, 2020, , 509-517.	0.3	6
14	Effect of Burnishing Tool Radius and Coolant Technique on Burnishing Performance. Journal of Physics: Conference Series, 2019, 1150, 012047.	0.3	1
15	Performance Evaluation of Sustainable Coolant Techniques on Burnishing Process. IOP Conference Series: Materials Science and Engineering, 2019, 494, 012001.	0.3	2
16	Biolubricant production from palm stearin through enzymatic transesterification method. Biochemical Engineering Journal, 2019, 148, 178-184.	1.8	59
17	Development and Analysis of Programmable Logic Controller Program for Defect Detection Prototype by CX Programmer. Journal of Physics: Conference Series, 2019, 1150, 012035.	0.3	1
18	Human Machine Interface Design Analysis of Defect Detection Prototype by Wonderware InTouch Software. Journal of Physics: Conference Series, 2019, 1150, 012034.	0.3	3

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19	Effect of nozzle distance and cutting parameters on MQL machining of AISI 1045. Journal of Physics: Conference Series, 2019, 1150, 012045.	0.3	10
20	Effect of Burnishing Tool Diameter and Coolant Strategies on Burnishing Performance. Journal of Physics: Conference Series, 2019, 1150, 012070.	0.3	2
21	The influence of modified vegetable oils on tool failure mode and wear mechanisms when turning AISI 1045. Tribology International, 2019, 129, 347-362.	3.0	41
22	Machining performance of vegetable oil with phosphonium- and ammonium-based ionic liquids via MQL technique. Journal of Cleaner Production, 2019, 209, 947-964.	4.6	93
23	Influence of the spark heat on the electrode behavior in Powder Mixed-EDM environment. Journal of Mechanical Engineering and Sciences, 2019, 13, 6125-6143.	0.3	4
24	Effect of Cutting Parameters on Tool Wear when Trochoidal Pocket Milling Ti6Al4V. International Journal of Integrated Engineering, 2019, 11, .	0.2	5
25	Comparison between Dry, MQL, and Cryogenic Cooling Technique on Surface Integrity of Burnished Surface. International Journal of Integrated Engineering, 2019, 11, .	0.2	3
26	Evaluation of mist flow characteristic and performance in Minimum Quantity Lubrication (MQL) machining. Measurement: Journal of the International Measurement Confederation, 2018, 123, 213-225.	2.5	88
27	Tribological investigations on the application of oil-miscible ionic liquids additives in modified Jatropha-based metalworking fluid. Tribology International, 2018, 120, 520-534.	3.0	51
28	Experimental evaluation of physicochemical properties and tapping torque of hexagonal boron nitride in modified jatropha oils-based as sustainable metalworking fluids. Journal of Cleaner Production, 2018, 171, 743-755.	4.6	25
29	Performance of modified jatropha oil in combination with hexagonal boron nitride particles as a bio-based lubricant for green machining. Tribology International, 2018, 118, 89-104.	3.0	101
30	High performance machining of carbon fiber-reinforced plastics. , 2018, , 211-226.		3
31	Chip pattern, burr and surface roughness in laser assisted micro milling of Ti6Al4V using micro ball end mill. Journal of Mechanical Engineering and Sciences, 2018, 12, 3410-3430.	0.3	4
32	Investigation on the Tribological Behaviour of Modified Jatropha Oil with Hexagonal Boron Nitride Particles as a Metalworking Fluid for Machining Process. International Journal of Integrated Engineering, 2018, 10, .	0.2	4
33	Tribological behaviour of modified jatropha oil by mixing hexagonal boron nitride nanoparticles as a bio-based lubricant for machining processes. Journal of Cleaner Production, 2017, 147, 360-378.	4.6	117
34	Evaluation of modified jatropha-based oil with hexagonal boron nitride particle as a biolubricant in orthogonal cutting process. International Journal of Advanced Manufacturing Technology, 2017, 92, 371-391.	1.5	48
35	Performance of palm oil as a biobased machining lubricant when drilling inconel 718. MATEC Web of Conferences, 2017, 101, 03015.	0.1	13
36	Wire-cut EDM of SiSiC-preliminary investigation in machining parameter. AIP Conference Proceedings, 2017, , .	0.3	0

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37	Investigation of 1-Dimensional ultrasonic vibration compliance mechanism based on finite element analysis. AIP Conference Proceedings, 2017, , .	0.3	0
38	Wire-cut EDM of SiSiC-preliminary investigation in machining parameter. AIP Conference Proceedings, 2017, , .	0.3	0
39	A review on ionic liquids as sustainable lubricants in manufacturing and engineering: Recent research, performance, and applications. Journal of Cleaner Production, 2017, 168, 1571-1589.	4.6	163
40	Comparative evaluation of physicochemical properties of jatropha curcas seed oil for coolant-lubricant application. AIP Conference Proceedings, 2017, , .	0.3	2
41	Tribological evaluation of hexagonal boron nitride in modified jatropha oil as sustainable metalworking fluid. AIP Conference Proceedings, 2017, , .	0.3	2
42	The influence of cryogenic supercritical carbon dioxide cooling on tool wear during machining high thermal conductivity steel. Journal of Cleaner Production, 2017, 164, 950-962.	4.6	52
43	A study on the effect of feed rate and cutting speed on surface roughness and material removal rate of mild steel. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012025.	0.3	2
44	Tribological performance of modified jatropha oil containing oil-miscible ionic liquid for machining applications. Journal of Mechanical Science and Technology, 2017, 31, 5675-5685.	0.7	19
45	Experimental Evaluation of Carbon Dioxide Gas as a Cryogenic Cooling in Machining Process. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2017, 2017.9, 171.	0.0	1
46	A Simulation Study on the Performance of Laser Assisted Micro Milling of Ti6Al4V. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2017, 2017.9, 170.	0.0	0
47	Optimization of pulsed Nd:YAG laser melting of gray cast iron at different spot sizes for enhanced surface properties. AIP Conference Proceedings, 2016, , .	0.3	3
48	Experimental Investigation of Supercritical Carbon Dioxide (SCCO ₂) Performance as a Sustainable Cooling Technique. Procedia CIRP, 2016, 40, 637-641.	1.0	33
49	The Effect of Tribology Behavior on Machining Performances When Using Bio-based Lubricant as a Sustainable Metalworking Fluid. Procedia CIRP, 2016, 40, 504-508.	1.0	42
50	THE EFFECTS OF THE DIE HALF ANGLE OF TAPER DIE ON PLANE STRAIN EXTRUSION. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
51	FORMULATION OF REFINED, BLEACHED AND DEODORISED PALM STEARIN WITH ZINC DIALKYL-DITHIOPHOSPHATE ADDITIVE AND ITS TRIBOLOGICAL PERFORMANCE. Jurnal Teknologi (Sciences) Tj ETQq1.3 0.784814 rgBT	0.3	12
52	An investigation of cutting mechanics in 2 dimensional ultrasonic vibration assisted milling toward chip thickness and chip formation. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012057.	0.3	12
53	A Study of Tool Motion in 2 Dimensional Ultrasonic Assisted Micro-Milling. Applied Mechanics and Materials, 2015, 815, 328-331.	0.2	0
54	A prediction of laser spot-to-cutting tool distance in laser assisted micro milling Inconel 718. Advances in Materials and Processing Technologies, 2015, 1, 529-541.	0.8	5

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55	Performance Evaluation of Chemically Modified Crude Jatropha Oil as a Bio-based Metalworking Fluids for Machining Process. <i>Procedia CIRP</i> , 2015, 26, 346-350.	1.0	41
56	Experimental Investigation of Minimum Quantity Lubrication (MQL) as a Sustainable Cooling Technique. <i>Procedia CIRP</i> , 2015, 26, 351-354.	1.0	81
57	Effect of Heat Compression on the Tensile Strength of PALF/Sugarcane Bagasse for Disposable Plate. <i>Applied Mechanics and Materials</i> , 2014, 660, 362-366.	0.2	3
58	Optimization of Laser Cutting Parameters on the Laminated Carbon Fibre Reinforced Plastics (CFRP) Composites Using DOE Technique. <i>Applied Mechanics and Materials</i> , 2014, 660, 60-64.	0.2	5
59	Investigation on Laser Assisted Micro Ball Milling of Inconel 718. <i>Applied Mechanics and Materials</i> , 2014, 660, 79-83.	0.2	7
60	Laser Assisted Machining of Titanium Alloys. <i>Materials Science Forum</i> , 2013, 763, 91-106.	0.3	10
61	Hand-Arm Vibration Analysis of Palm Oil Fruit Harvester Machine. <i>Applied Mechanics and Materials</i> , 2013, 315, 621-625.	0.2	3
62	Hand-Arm Vibration of Unskilled Oil Palm Motorised Cutter Operator. <i>Applied Mechanics and Materials</i> , 2013, 315, 695-699.	0.2	1
63	A003 Investigation of End Mill Geometry when Helical Milling CFRP/ Al Stacks. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2013, 2013.7, 13-17.	0.0	0
64	The Effect of Laser Cutting Parameters on the Aerospace Structure Panel of CFRP Composite Material. <i>Applied Mechanics and Materials</i> , 2012, 225, 127-131.	0.2	4
65	Investigation of tool wear and surface integrity on MQL machining of Ti-6Al-4V using biodegradable oil. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2011, 225, 1505-1511.	1.5	72
66	AN ANALYSIS OF SURFACE INTEGRITY WHEN DRILLING INCONEL 718 USING PALM OIL AND SYNTHETIC ESTER UNDER MQL CONDITION. <i>Machining Science and Technology</i> , 2011, 15, 76-90.	1.4	90
67	3418 Drilling of Ti-6Al-4V with MQL and its FE Simulation. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2011, 2011.6, _3418-1_-_3418-4_.	0.0	0
68	A study of the effect of palm oil as MQL lubricant on high speed drilling of titanium alloys. <i>Tribology International</i> , 2011, 44, 309-317.	3.0	293
69	Surface Integrity when Drilling Nickel-Based Superalloy under MQL Supply. <i>Key Engineering Materials</i> , 2010, 443, 365-370.	0.4	6
70	Evaluation of tool wear mechanism of TiAlN coated tools when drilling Ti-6Al-4V. <i>International Journal of Manufacturing Technology and Management</i> , 2009, 17, 327.	0.1	5
71	B11 Performance of Palm Oil as MQL Fluid during High Speed Drilling of Ti-6Al-4V(Advanced machining) Tj ETQq1 1 0.784314 rgBT /Ove LEM21, 2009, 2009.5, 319-324.	0.0	1
72	Performance Evaluation of Uncoated Carbide Tool in High Speed Drilling of Ti6Al4V. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2008, 2, 522-531.	0.3	20

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73	Performance of coated- and uncoated-carbide tools when drilling titanium alloy Ti-6Al4V. Journal of Materials Processing Technology, 2007, 185, 72-76.	3.1	175
74	High Speed Drilling Ti6Al4V. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2007, 2007.4, 7A110.	0.0	0
75	Investigation of Chip Formation in Milling Titanium Alloy. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2007, 2007.4, 8A113.	0.0	0
76	Investigation on Tool Life and Surface Integrity when Drilling Ti-6Al-4V and Ti-5Al-4V-Mo/Fe. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2006, 49, 340-345.	0.3	39
77	Surface Integrity in MQL Drilling Nickel-Based Superalloy. Key Engineering Materials, 0, 447-448, 811-815.	0.4	8
78	Effect of MQL Liquids on Surface Integrity when High Speed Drilling Titanium Alloy. Key Engineering Materials, 0, 443, 359-364.	0.4	9
79	Effect of Machining Parameters and MQL Liquids on Surface Integrity of High Speed Drilling Ti-6Al-4V. Key Engineering Materials, 0, 447-448, 816-820.	0.4	7
80	Laser Cutting Characteristic on the Laminated Carbon Fiber Reinforced Plastics (CFRP) Composite of Aerospace Structure Panel. Advanced Materials Research, 0, 576, 503-506.	0.3	10
81	Experimental Study of Helical Milling on CFRP (Carbon Fibre Reinforced Polymer) for the Hole Making Process. Advanced Materials Research, 0, 576, 68-71.	0.3	5
82	The Effect of Internal through Coolant on Grinding Performance on AISI1020 Mildsteel. Advanced Materials Research, 0, 576, 87-90.	0.3	1
83	Hole Making Process of Carbon Fiber Reinforced Polymer (CFRP) Using End Mill Cutting Tool. Advanced Materials Research, 0, 576, 64-67.	0.3	2
84	Effect of Drill Point Angle on Surface Integrity when Drilling Titanium Alloy. Advanced Materials Research, 0, 845, 966-970.	0.3	3
85	Dynamic Analysis of Micro-Milling Machine. Applied Mechanics and Materials, 0, 465-466, 699-703.	0.2	5
86	The Effect of Laser Focal Point Distance on Carbon Fiber Reinforced Plastics (CFRP) Cutting Performance. Applied Mechanics and Materials, 0, 315, 778-782.	0.2	4
87	Performance Investigation of Modified Turning Tool Holder for MQL Application. Applied Mechanics and Materials, 0, 465-466, 1114-1118.	0.2	1
88	Study on Temperature, Force and Specific Energy of AISI 1020 under MQL Grinding Process. Applied Mechanics and Materials, 0, 465-466, 1119-1123.	0.2	3
89	Performance of Tools Design when Helical Milling on Carbon Fiber Reinforced Plastics (CFRP) Aluminum (Al) Stack. Applied Mechanics and Materials, 0, 465-466, 1075-1079.	0.2	4
90	Titanium Alloy Welding Using Middle Range Power Pulsed Wave Laser. Applied Mechanics and Materials, 0, 372, 486-490.	0.2	2

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91	Dissimilar Materials Laser Welding Characteristics of Stainless Steel and Titanium Alloy. Applied Mechanics and Materials, 0, 465-466, 1060-1064.	0.2	4
92	Numerical Analysis of Laser Heating for Laser Assisted Micro Milling Application. Applied Mechanics and Materials, 0, 465-466, 720-724.	0.2	4
93	Determination of Heat Flux Intensity Distribution and Laser Absorption Rate of AISI D2 Tool Steel. Applied Mechanics and Materials, 0, 465-466, 730-734.	0.2	4
94	The Effect Carbon Fiber Pole on Hand-Arm Vibration of Palm Fruit Motorised Cutter. Applied Mechanics and Materials, 0, 660, 521-525.	0.2	0
95	The Effect on the Application of Coolant and Ultrasonic Vibration Assisted Micro Milling on Machining Performance. Applied Mechanics and Materials, 0, 660, 65-69.	0.2	9
96	The Performance of Modified Jatropha-Oil Based Trimethylolpropane (TMP) Ester on Tribology Characteristic for Sustainable Metalworking Fluids (MWFs). Applied Mechanics and Materials, 0, 660, 357-361.	0.2	21
97	Experimental Analysis on Ultrasonic Assisted Turning (UAT) Based on Innovated Tool Holder in the Scope of Dry & Wet Machining. Applied Mechanics and Materials, 0, 660, 104-108.	0.2	11
98	Tribological Evaluation on Various Formulation of Modified RBD Palm Olein as Sustainable Metalworking Fluids for Machining Process. Materials Science Forum, 0, 882, 13-17.	0.3	6
99	Laser Micro Welding of Dissimilar Material of Aluminum and Copper Alloys. Materials Science Forum, 0, 882, 18-22.	0.3	2
100	Melted Zone Shapes Transformation in Titanium Alloy Welded Using Pulse Wave Laser. Materials Science Forum, 0, 882, 8-12.	0.3	9
101	Study of Ionic Liquids (AIL and PIL) Viscosity and its Functional Groups under Heat Treatment on Cutting Tool Surface Using Fourier-Transform Infrared Spectroscopy (FTIR). Materials Science Forum, 0, 981, 98-103.	0.3	1