

Erween Abd Rahim

List of Publications by Year in descending order

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101
papers

2,263
citations

257101

24
h-index

243296

44
g-index

105
all docs

105
docs citations

105
times ranked

1435
citing authors

#	ARTICLE	IF	CITATIONS
1	A study of the effect of palm oil as MQL lubricant on high speed drilling of titanium alloys. Tribology International, 2011, 44, 309-317.	3.0	293
2	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
3	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
4	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
5	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
6	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
7	Green Metalworking Fluids for sustainable machining applications: A review. Journal of Cleaner Production, 2020, 257, 120552.	4.6	92
8	AN ANALYSIS OF SURFACE INTEGRITY WHEN DRILLING INCONEL 718 USING PALM OIL AND SYNTHETIC ESTER UNDER MQL CONDITION. Machining Science and Technology, 2011, 15, 76-90.	1.4	90
9	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
10	Experimental Investigation of Minimum Quantity Lubrication (MQL) as a Sustainable Cooling Technique. Procedia CIRP, 2015, 26, 351-354.	1.0	81
11	Investigation of tool wear and surface integrity on MQL machining of Ti-6AL-4V using biodegradable oil. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2011, 225, 1505-1511.	1.5	72
12	Biolubricant production from palm stearin through enzymatic transesterification method. Biochemical Engineering Journal, 2019, 148, 178-184.	1.8	59
13	Effect of ZnO nanoparticles concentration as additives to the epoxidized Euphorbia Lathyris oil and their tribological characterization. Fuel, 2021, 285, 119148.	3.4	55
14	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
15	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
16	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
17	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
18	Performance Evaluation of Chemically Modified Crude Jatropha Oil as a Bio-based Metalworking Fluids for Machining Process. Procedia CIRP, 2015, 26, 346-350.	1.0	41

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19	The influence of modified vegetable oils on tool failure mode and wear mechanisms when turning AISI 1045. <i>Tribology International</i> , 2019, 129, 347-362.	3.0	41
20	Investigation on Tool Life and Surface Integrity when Drilling Ti-6Al-4V and Ti-5Al-4V-Mo/Fe. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2006, 49, 340-345.	0.3	39
21	Michelia Champaca: Sustainable novel non-edible oil as nano based bio-lubricant with tribological investigation. <i>Fuel</i> , 2020, 282, 118830.	3.4	35
22	Experimental Investigation of Supercritical Carbon Dioxide (SCCO ₂) Performance as a Sustainable Cooling Technique. <i>Procedia CIRP</i> , 2016, 40, 637-641.	1.0	33
23	Prediction of performance and emission parameters of Kusum biodiesel based diesel engine using neuro-fuzzy techniques combined with genetic algorithm. <i>Fuel</i> , 2020, 280, 118629.	3.4	32
24	Recent advances on high performance machining of aerospace materials and composites using vegetable oil-based metal working fluids. <i>Journal of Cleaner Production</i> , 2021, 310, 127459.	4.6	27
25	Experimental evaluation of physicochemical properties and tapping torque of hexagonal boron nitride in modified jatropha oils-based as sustainable metalworking fluids. <i>Journal of Cleaner Production</i> , 2018, 171, 743-755.	4.6	25
26	The Performance of Modified Jatropha-Oil Based Trimethylolpropane (TMP) Ester on Tribology Characteristic for Sustainable Metalworking Fluids (MWFs). <i>Applied Mechanics and Materials</i> , 0, 660, 357-361.	0.2	21
27	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
28	Tribological performance of modified jatropha oil containing oil-miscible ionic liquid for machining applications. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 5675-5685.	0.7	19
29	Performance of palm oil as a biobased machining lubricant when drilling inconel 718. <i>MATEC Web of Conferences</i> , 2017, 101, 03015.	0.1	13
30	An investigation of cutting mechanics in 2 dimensional ultrasonic vibration assisted milling toward chip thickness and chip formation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 100, 012057.	0.3	12
31	Experimental Analysis on Ultrasonic Assisted Turning (UAT) Based on Innovated Tool Holder in the Scope of Dry & Wet Machining. <i>Applied Mechanics and Materials</i> , 0, 660, 104-108.	0.2	11
32	Laser Cutting Characteristic on the Laminated Carbon Fiber Reinforced Plastics (CFRP) Composite of Aerospace Structure Panel. <i>Advanced Materials Research</i> , 0, 576, 503-506.	0.3	10
33	Laser Assisted Machining of Titanium Alloys. <i>Materials Science Forum</i> , 2013, 763, 91-106.	0.3	10
34	Effect of nozzle distance and cutting parameters on MQL machining of AISI 1045. <i>Journal of Physics: Conference Series</i> , 2019, 1150, 012045.	0.3	10
35	Effect of MQL Liquids on Surface Integrity when High Speed Drilling Titanium Alloy. <i>Key Engineering Materials</i> , 0, 443, 359-364.	0.4	9
36	The Effect on the Application of Coolant and Ultrasonic Vibration Assisted Micro Milling on Machining Performance. <i>Applied Mechanics and Materials</i> , 0, 660, 65-69.	0.2	9

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37	Melted Zone Shapes Transformation in Titanium Alloy Welded Using Pulse Wave Laser. Materials Science Forum, 0, 882, 8-12.	0.3	9
38	Surface Integrity in MQL Drilling Nickel-Based Superalloy. Key Engineering Materials, 0, 447-448, 811-815.	0.4	8
39	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
40	Investigation on Laser Assisted Micro Ball Milling of Inconel 718. Applied Mechanics and Materials, 2014, 660, 79-83.	0.2	7
41	Surface Integrity when Drilling Nickel-Based Superalloy under MQL Supply. Key Engineering Materials, 2010, 443, 365-370.	0.4	6
42	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
43	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
44	Evaluation of tool wear mechanism of TiAlN coated tools when drilling Ti-6Al-4V. International Journal of Manufacturing Technology and Management, 2009, 17, 327.	0.1	5
45	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
46	Dynamic Analysis of Micro-Milling Machine. Applied Mechanics and Materials, 0, 465-466, 699-703.	0.2	5
47	Optimization of Laser Cutting Parameters on the Laminated Carbon Fibre Reinforced Plastics (CFRP) Composites Using DOE Technique. Applied Mechanics and Materials, 2014, 660, 60-64.	0.2	5
48	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
49	CO2 Laser Cutting Performance on Ultra High Strength Steel (UHSS). Lasers in Manufacturing and Materials Processing, 2020, 7, 15-37.	1.2	5
50	Effect of Cutting Parameters on Tool Wear when Trochoidal Pocket Milling Ti6Al4V. International Journal of Integrated Engineering, 2019, 11, .	0.2	5
51	The Effect of Laser Cutting Parameters on the Aerospace Structure Panel of CFRP Composite Material. Applied Mechanics and Materials, 2012, 225, 127-131.	0.2	4
52	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
53	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
54	Dissimilar Materials Laser Welding Characteristics of Stainless Steel and Titanium Alloy. Applied Mechanics and Materials, 0, 465-466, 1060-1064.	0.2	4

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55	Numerical Analysis of Laser Heating for Laser Assisted Micro Milling Application. Applied Mechanics and Materials, 0, 465-466, 720-724.	0.2	4
56	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
57	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
58	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
59	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
60	Effect of Drill Point Angle on Surface Integrity when Drilling Titanium Alloy. Advanced Materials Research, 0, 845, 966-970.	0.3	3
61	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
62	Hand-Arm Vibration Analysis of Palm Oil Fruit Harvester Machine. Applied Mechanics and Materials, 2013, 315, 621-625.	0.2	3
63	Effect of Heat Compression on the Tensile Strength of PALF/Sugarcane Bagasse for Disposable Plate. Applied Mechanics and Materials, 2014, 660, 362-366.	0.2	3
64	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
65	High performance machining of carbon fiber-reinforced plastics. , 2018, , 211-226.		3
66	Human Machine Interface Design Analysis of Defect Detection Prototype by Wonderware InTouch Software. Journal of Physics: Conference Series, 2019, 1150, 012034.	0.3	3
67	Comparison between Dry, MQL, and Cryogenic Cooling Technique on Surface Integrity of Burnished Surface. International Journal of Integrated Engineering, 2019, 11, .	0.2	3
68	Hole Making Process of Carbon Fiber Reinforced Polymer (CFRP) Using End Mill Cutting Tool. Advanced Materials Research, 0, 576, 64-67.	0.3	2
69	Titanium Alloy Welding Using Middle Range Power Pulsed Wave Laser. Applied Mechanics and Materials, 0, 372, 486-490.	0.2	2
70	Laser Micro Welding of Dissimilar Material of Aluminum and Copper Alloys. Materials Science Forum, 0, 882, 18-22.	0.3	2
71	Comparative evaluation of physicochemical properties of jatropha curcas seed oil for coolant-lubricant application. AIP Conference Proceedings, 2017, , .	0.3	2
72	Tribological evaluation of hexagonal boron nitride in modified jatropha oil as sustainable metalworking fluid. AIP Conference Proceedings, 2017, , .	0.3	2

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73	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
74	Performance Evaluation of Sustainable Coolant Techniques on Burnishing Process. IOP Conference Series: Materials Science and Engineering, 2019, 494, 012001.	0.3	2
75	Effect of Burnishing Tool Diameter and Coolant Strategies on Burnishing Performance. Journal of Physics: Conference Series, 2019, 1150, 012070.	0.3	2
76	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
77	The Effect of Internal through Coolant on Grinding Performance on AISI1020 Mildsteel. Advanced Materials Research, 0, 576, 87-90.	0.3	1
78	Performance Investigation of Modified Turning Tool Holder for MQL Application. Applied Mechanics and Materials, 0, 465-466, 1114-1118.	0.2	1
79	Hand-Arm Vibration of Unskilled Oil Palm Motorised Cutter Operator. Applied Mechanics and Materials, 2013, 315, 695-699.	0.2	1
80	Effect of Burnishing Tool Radius and Coolant Technique on Burnishing Performance. Journal of Physics: Conference Series, 2019, 1150, 012047.	0.3	1
81	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
82	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
83	Evaluation of End Mill Geometry When Machining Nickel Based Alloys. Lecture Notes in Mechanical Engineering, 2021, , 289-298.	0.3	1
84	B11 Performance of Palm Oil as MQL Fluid during High Speed Drilling of Ti-6Al-4V(Advanced machining) Tj ETQq0 0 0 rgBT /Overlock 10 LEM21, 2009, 2009.5, 319-324.	0.0	1
85	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
86	FORMULATION OF REFINED, BLEACHED AND DEODORISED PALM STEARIN WITH ZINC DIALKYL-DITHIOPHOSPHATE ADDITIVE AND ITS TRIBOLOGICAL PERFORMANCE. Jurnal Teknologi (Sciences) Tj ETQq0 0 0 rgBT /Overlock	0.0	0
87	3418 Drilling of Ti-6Al-4V with MQL and its FE Simulation. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2011, 2011.6, _3418-1_- _3418-4_.	0.0	0
88	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
89	A Study of Tool Motion in 2 Dimensional Ultrasonic Assisted Micro-Milling. Applied Mechanics and Materials, 2015, 815, 328-331.	0.2	0
90	Wire-cut EDM of SiSiC-preliminary investigation in machining parameter. AIP Conference Proceedings, 2017, , .	0.3	0

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91	Investigation of 1-Dimensional ultrasonic vibration compliance mechanism based on finite element analysis. AIP Conference Proceedings, 2017, , .	0.3	0
92	Wire-cut EDM of SiSiC-preliminary investigation in machining parameter. AIP Conference Proceedings, 2017, , .	0.3	0
93	Performance Evaluation of Countersink Drilling of Carbon Fiber Reinforced Polymer (CFRP). Lecture Notes in Mechanical Engineering, 2021, , 537-545.	0.3	0
94	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
95	Case Study on Life Cycle Assessment of Car Fenders (Steel Versus Polymer). Lecture Notes in Mechanical Engineering, 2021, , 299-310.	0.3	0
96	The Effect of Laser Beam Parameters on Welding Quality of Nitinol Alloys. Lecture Notes in Mechanical Engineering, 2021, , 219-227.	0.3	0
97	High Speed Drilling Ti6Al4V. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2007, 2007.4, 7A110.	0.0	0
98	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
99	A003 Investigation of End Mill Geometry when Helical Milling CFRP/ Al Stacks. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2013, 2013.7, 13-17.	0.0	0
100	THE EFFECTS OF THE DIE HALF ANGLE OF TAPER DIE ON PLANE STRAIN EXTRUSION. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
101	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