

# Abdul Maleque

## List of Publications by Year in descending order

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96  
papers

2,407  
citations

346980

22  
h-index

252626

46  
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97  
all docs

97  
docs citations

97  
times ranked

2106  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hard-Hydrophobic Nano-CuO Coating via Electrochemical Oxidation for Heat Transfer Performance Enhancement. Arabian Journal for Science and Engineering, 2022, 47, 6013-6023.	1.7	2
2	Effective Parameter of Nano-CuO Coating on CO Gas-Sensing Performance and Heat Transfer Efficiency. Arabian Journal for Science and Engineering, 2021, 46, 6557-6566.	1.7	4
3	Sliding Wear of SiC Reinforced Duplex Stainless Steel via TIG Torch Surface Melting Technique. Recent Patents on Engineering, 2021, 14, 366-372.	0.3	0
4	Influence of agro-based reinforcements on the properties of aluminum matrix composites: a systematic review. Journal of Materials Science, 2021, 56, 16195-16222.	1.7	18
5	Review on advances in porous Al composites and the possible way forward. Journal of Materials Research and Technology, 2021, 14, 2017-2038.	2.6	32
6	Interface Study of SiCp/6061Al Composite. , 2020, , 456-461.		0
7	Particulate Composite Protective Coating Using Conventional Melting Approach. , 2020, , 510-516.		0
8	TIG Torch Melting as Surface Engineering Technology. , 2020, , 629-637.		0
9	Processing of Ceramic Composite Coating via TIG Torch Welding Technique. , 2020, , 523-535.		2
10	Islamisation of Engineering Education â€œ A Case at IIUM. Universal Journal of Educational Research, 2020, 8, 355-361.	0.1	0
11	TIG torch surfacing of metallic materials â€œ a critical review. Transactions of the Institute of Metal Finishing, 2019, 97, 12-21.	0.6	9
12	Melting of SiC powders preplaced duplex stainless steel using TIG welding. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012018.	0.3	2
13	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
14	Nitride alloy layer formation of duplex stainless steel using nitriding process. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012015.	0.3	1
15	The properties of hydroxyapatite ceramic coatings produced by plasma electrolytic oxidation. Ceramics International, 2018, 44, 1802-1811.	2.3	44
16	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
17	Micro Electro Discharge Machining for Nonconductive Ceramic Materials. International Journal of Engineering Materials and Manufacture, 2018, 3, 55-62.	0.2	2
18	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

#	ARTICLE	IF	CITATIONS
19	Wear behaviour at 600°C of surface engineered low-alloy steel containing TiC particles. Materials Science and Technology, 2017, 33, 1688-1695.	0.8	3
20	Optimization of tribological performance of SiC embedded composite coating via Taguchi analysis approach. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012035.	0.3	1
21	Abrasive wear response of TiG-melted TiC composite coating: Taguchi approach. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012018.	0.3	4
22	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
23	Hardfacing of duplex stainless steel using melting and diffusion processes. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012030.	0.3	4
24	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
25	Design and materials development of automotive crash box: a review. Ciência & Tecnologia Dos Materiais, 2017, 29, 129-144.	0.5	25
26	Analysis of Fracture Mechanism for Al-Mg/SiC Composite Materials. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012031.	0.3	14
27	Investigation of Parametric Influence on the Properties of Al6061-SiCp Composite. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012019.	0.3	1
28	Experimental investigation on the performance of the TiO <sub>2</sub> and ZnO hybrid nanocoolant in ethylene glycol mixture towards AA6061-T6 machining. International Journal of Automotive and Mechanical Engineering, 2017, 14, 3913-3926.	0.5	22
29	Nanoindentation and the Low Velocity Impact Response of Biofibre, Biopolymer and its Biocomposite Derived from Sugar Palm Tree. Current Organic Synthesis, 2017, 14, 227-232.	0.7	1
30	Mechanical Properties of Oil Palm Shell Composites. International Journal of Polymer Science, 2016, 2016, 1-7.	1.2	13
31	Effect of variable particle size reinforcement on mechanical and wear properties of 6061Al-SiC composite. Composite Interfaces, 2016, 23, 533-547.	1.3	30
32	Preparation and characterisation of TiG-alloyed hybrid composite coatings for high-temperature tribological applications. Transactions of the Institute of Metal Finishing, 2016, 94, 211-221.	0.6	9
33	Effect of oil palm ash on the mechanical and thermal properties of unsaturated polyester composites. E-Polymers, 2016, 16, 323-329.	1.3	5
34	Biodiesel Production from Crude Jatropha Oil using a Highly Active Heterogeneous Nanocatalyst by Optimizing Transesterification Reaction Parameters. Energy & Fuels, 2016, 30, 334-343.	2.5	99
35	Microstructural aspects of wear behaviour of TiC coated low alloy steel. Materials Science and Technology, 2016, 32, 303-307.	0.8	8
36	Corrosion of Surface Modified AISI 4340 Steel in Jatropha Biodiesel. Advanced Materials Research, 2015, 1115, 243-246.	0.3	0

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37	Synthesis and characterization of Ni-P coated hexagonal boron nitride by electroless nickel deposition. <i>Surface Engineering and Applied Electrochemistry</i> , 2015, 51, 523-529.	0.3	5
38	Melting of multipass surface tracks in steel incorporating titanium carbide powders. <i>Materials Science and Technology</i> , 2015, 31, 1362-1369.	0.8	22
39	Crashworthy capacity of a hybridized epoxy-glass fiber aluminum columnar tube using repeated axial resistive force. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 1941-1953.	0.7	7
40	Wear Behaviour of TiC Coated AISI 4340 Steel Produced by TIG Surface Melting. <i>Materials Science Forum</i> , 2015, 819, 76-80.	0.3	12
41	Effect of Temperature on the Wear Properties of Alloy Steel under Jatropha Curcas Biodiesel. <i>Advanced Materials Research</i> , 2015, 1115, 203-206.	0.3	0
42	Thin Surface Layers of Iron-Based Alloys Deposited by TIG Hardfacing. <i>Tribology Online</i> , 2015, 10, 434-440.	0.2	6
43	Physico-chemical and Thermal Properties of Starch Derived from Sugar Palm Tree ( <i>Arenga pinnata</i> ). <i>Asian Journal of Chemistry</i> , 2014, 26, 955-959.	0.1	31
44	BIODEGRADABILITY AND MECHANICAL BEHAVIOUR OF SUGAR PALM STARCH BASED BIOPOLYMER. <i>American Journal of Applied Sciences</i> , 2014, 11, 1836-1840.	0.1	3
45	Development of kenaf-glass reinforced unsaturated polyester hybrid composite for structural applications. <i>Composites Part B: Engineering</i> , 2014, 56, 68-73.	5.9	228
46	Radiation and heat generation effects on viscous Joule heating MHD-conjugate heat transfer for a vertical flat plate. <i>Canadian Journal of Physics</i> , 2014, 92, 509-521.	0.4	3
47	Performance assessment of aluminium composite material for automotive brake rotor. <i>International Journal of Vehicle Systems Modelling and Testing</i> , 2014, 9, 207.	0.1	5
48	MICRO-EDM FOR MICRO-CHANNEL FABRICATION ON NONCONDUCTIVE ZrO <sub>2</sub> CERAMIC. <i>International Journal of Automotive and Mechanical Engineering</i> , 2014, 10, 1841-1851.	0.5	6
49	Tribocorrosion Behaviour of Biodiesel ^   ^mdash; A Review. <i>Tribology Online</i> , 2014, 9, 10-20.	0.2	7
50	Development and Characterization of Coir Fibre Reinforced Composite Brake Friction Materials. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 3191-3199.	1.1	56
51	Mechanical and thermal properties of environmentally friendly composites derived from sugar palm tree. <i>Materials &amp; Design</i> , 2013, 49, 285-289.	5.1	137
52	Flexural and Impact Properties of Biopolymer Derived from Sugar Palm Tree. <i>Advanced Materials Research</i> , 2013, 701, 225-228.	0.3	3
53	Wear Mechanisms Map of CNT-Al Nano-composite. <i>Procedia Engineering</i> , 2013, 68, 736-742.	1.2	24
54	Radiation Effects on MHD Free Convection Flow along Vertical Flat Plate in Presence of Joule Heating and Heat Generation. <i>Procedia Engineering</i> , 2013, 56, 503-509.	1.2	14

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55	Investigation of Material Removal Characteristics in EDM of Nonconductive ZrO <sub>2</sub> Ceramic. Procedia Engineering, 2013, 56, 696-701.	1.2	67
56	Thermo-mechanical behaviors of thermoplastic starch derived from sugar palm tree (Arenga pinnata). Carbohydrate Polymers, 2013, 92, 1711-1716.	5.1	120
57	Effect of Water Absorption on Mechanical Properties of Sugar Palm Fibre Reinforced Sugar Palm Starch (SPF/SPS) Biocomposites. Journal of Biobased Materials and Bioenergy, 2013, 7, 90-94.	0.1	19
58	Processing of TiC-CNT Hybrid Composite Coating on Low Alloy Steel Using TIG Torch Technique. Applied Mechanics and Materials, 2013, 378, 259-264.	0.2	20
59	The tribological behaviour of Fe-Al cast iron – effect of temperature. Industrial Lubrication and Tribology, 2013, 65, 320-327.	0.6	8
60	Investigation of surface roughness in micro-electro discharge machining of nonconductive ZrO <sub>2</sub> for MEMS application. IOP Conference Series: Materials Science and Engineering, 2013, 53, 012090.	0.3	4
61	Energy and Cost Analysis of Weight Reduction using Composite Brake Rotor. International Journal of Vehicle Structures and Systems, 2012, 4, .	0.1	8
62	Digital logic and knowledge-based system for the automotive piston material selection. International Journal of Materials and Structural Integrity, 2012, 6, 134.	0.1	0
63	Sugar Palm Tree: A Versatile Plant and Novel Source for Biofibres, Biomatrices, and Biocomposites. Polymers From Renewable Resources, 2012, 3, 61-78.	0.8	23
64	Heat Transfer Analysis Inside Exhaust Port for a Hydrogen Fueled Port Injection Engine. Advanced Science Letters, 2012, 14, 239-243.	0.2	3
65	Metal Matrix Composite Brake Rotor: Historical Development and Product Life Cycle Analysis. International Journal of Automotive and Mechanical Engineering, 2011, 4, 471-480.	0.5	121
66	Transient in-Cylinder Gas Flow Characteristics of Single Cylinder Port Injection Hydrogen Fueled Engine. American Journal of Applied Sciences, 2010, 7, 1364-1371.	0.1	0
67	In-Cylinder Heat Transfer Characteristics of Hydrogen Fueled Engine: A Steady State Approach. American Journal of Environmental Sciences, 2010, 6, 124-129.	0.3	13
68	Heat Transfer Characteristics of Intake Port for Spark Ignition Engine:A Comparative Study. Journal of Applied Sciences, 2010, 10, 2019-2026.	0.1	7
69	Wear behavior of as-cast and heat treated triple particle size SiC reinforced aluminum metal matrix composites. Industrial Lubrication and Tribology, 2009, 61, 78-83.	0.6	10
70	Assessment of Surface Treatment on Fatigue Life of Cylinder Block for Linear Engine using Frequency Response Approach. American Journal of Applied Sciences, 2009, 6, 715-725.	0.1	2
71	Moisture absorption behavior of sugar palm fiber reinforced epoxy composites. Materials & Design, 2008, 29, 1666-1670.	5.1	103
72	The Effect of Environmental Treatments on Fiber Surface Properties and Tensile Strength of Sugar Palm Fiber-Reinforced Epoxy Composites. Polymer-Plastics Technology and Engineering, 2008, 47, 606-612.	1.9	74

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73	Tribological behavior of dual and triple particle size SiC reinforced Al- $\epsilon$ MMCs: a comparative study. <i>Industrial Lubrication and Tribology</i> , 2008, 60, 189-194.	0.6	17
74	Finite Element Based Fatigue Life Prediction of Cylinder Head for Two-Stroke Linear Engine Using Stress-Life Approach. <i>Journal of Applied Sciences</i> , 2008, 8, 3316-3327.	0.1	19
75	Experimental investigation on system performance using palm oil as hydraulic fluid. <i>Industrial Lubrication and Tribology</i> , 2007, 59, 200-208.	0.6	18
76	A note on the conceptual design of polymeric composite automotive bumper system. <i>Journal of Materials Processing Technology</i> , 2005, 159, 145-151.	3.1	62
77	Design and fabrication of natural woven fabric reinforced epoxy composite for household telephone stand. <i>Materials &amp; Design</i> , 2005, 26, 65-71.	5.1	106
78	Air -Fuel Ratio Calculation for a Natural Gas Fuelled Spark Ignition Engine. , 2004, , .		5
79	The effect of intercritical heat treatment on the mechanical properties of AISI 3115 steel. <i>Journal of Materials Processing Technology</i> , 2004, 153-154, 482-487.	3.1	63
80	Wear surface characteristics study of tribo- $\epsilon$ materials under palm oil methyl ester added lubricant. <i>Industrial Lubrication and Tribology</i> , 2002, 54, 177-182.	0.6	1
81	A Critical Review of Polymer-based Composite Automotive Bumper Systems. <i>Polymers and Polymer Composites</i> , 2002, 10, 627-636.	1.0	7
82	The applicability of ISO household refrigerator- $\epsilon$ freezer energy test specifications in Malaysia. <i>Energy</i> , 2001, 26, 723-737.	4.5	33
83	Performance, emissions and wear characteristics of an indirect injection diesel engine using coconut oil blended fuel. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2001, 215, 393-404.	1.1	50
84	Effect of mechanical factors on tribological properties of palm oil methyl ester blended lubricant. <i>Wear</i> , 2000, 239, 117-125.	1.5	135
85	Palm oil and mineral oil based lubricants- $\epsilon$ their tribological and emission performance. <i>Tribology International</i> , 1999, 32, 305-314.	3.0	127
86	Bio-Fuel-Contaminated Lubricant and Hardening Effects on the Friction and Wear of AISI 1045 Steel. <i>Tribology Transactions</i> , 1998, 41, 155-159.	1.1	11
87	Investigation of the anti-wear characteristics of palm oil methyl ester using a four-ball tribometer test. <i>Wear</i> , 1997, 206, 179-186.	1.5	102
88	Wear, Performance and Emissions of a Two-Stroke Engine Running on Palm Oil Methyl Ester Blended Lubricant. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 1996, 210, 213-219.	1.0	11
89	The effect of palm oil diesel fuel contaminated lubricant on sliding wear of cast irons against mild steel. <i>Wear</i> , 1996, 198, 293-299.	1.5	59
90	Combustion Characteristics of Biological Fuel in Diesel Engine. , 0, , .		20

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91	Flexural and Impact Properties of Kenaf-Glass Hybrid Composite. <i>Advanced Materials Research</i> , 0, 576, 471-474.	0.3	13
92	Effect of Ball Milling Parameters on the Synthesization of Carbon Nanotube Aluminium Nano Composite. <i>Advanced Materials Research</i> , 0, 626, 537-541.	0.3	2
93	Effect of Micro-EDM Parameters on Material Removal Rate of Nonconductive ZrO <sub>2</sub> Ceramic. <i>Applied Mechanics and Materials</i> , 0, 465-466, 1329-1333.	0.2	2
94	Effect of Copper on Tensile Strength Improvement of Al-Cu-SiC <sub>2</sub> P <sub>2</sub> New Composite. <i>Materials Science Forum</i> , 0, 773-774, 541-546.	0.3	0
95	Tungsten Inert Gas Surface Alloying of Commercial Purity Titanium (CP-Ti) with Fe-C-Si Ternary Mixtures. <i>Advanced Materials Research</i> , 0, 1024, 207-210.	0.3	8
96	Crush Zone Morphology of Epoxy-Glass Fiber-Aluminium Composite Columnar Tube due to Longitudinal Crushing Force. <i>Advanced Materials Research</i> , 0, 1115, 258-261.	0.3	1