Muhamad Mat Noor

List of Publications by Year
in descending order

128 papers	2,195 citations	257450 24 h-index	276875 41 g-index
128 all docs	128 docs citations	128 times ranked	2044 citing authors

#	Article	IF	Citations
1	Biodiesel as alternative fuel for marine diesel engine applications: A review. Renewable and Sustainable Energy Reviews, 2018, 94, 127-142.	16.4	257
2	Corrosion effect of phase change materials in solar thermal energy storage application. Renewable and Sustainable Energy Reviews, 2017, 76, 19-33.	16.4	107
3	Improvement in the performance of solar collectors with nanofluids â€"ÂA state-of-the-art review. Nano Structures Nano Objects, 2019, 18, 100276.	3.5	107
4	Tool life and wear mechanism when machining Hastelloy C-22HS. Wear, 2011, 270, 258-268.	3.1	84
5	Copper (II) oxide nanoparticles as additve in engine oil to increase the durability of piston-liner contact. Fuel, 2018, 212, 656-667.	6.4	74
6	Using fusel oil as a blend in gasoline to improve SI engine efficiencies: A comprehensive review. Renewable and Sustainable Energy Reviews, 2017, 69, 1232-1242.	16.4	68
7	An absorption capacity investigation of new absorbent based on polyurethane foams and rice straw for oil spill cleanup. Petroleum Science and Technology, 2018, 36, 361-370.	1.5	58
8	Force convection heat transfer of Al_2O_3 nanofluids for different based ratio of water: Ethylene glycol mixture. Applied Thermal Engineering, 2017, 112, 707-719.	6.0	57
9	Comparative Analysis on Performance and Emission Characteristic of Diesel Engine Fueled with Heated Coconut Oil and Diesel Fuel. International Journal of Automotive and Mechanical Engineering, 2018, 15, 5110-5125.	0.9	56
10	Significance of alumina in nanofluid technology. Journal of Thermal Analysis and Calorimetry, 2019, 138, 1107-1126.	3.6	55
11	Micro Combined Heat and Power to provide heat and electrical power using biomass and Gamma-type Stirling engine. Applied Thermal Engineering, 2016, 103, 1460-1469.	6.0	50
12	The effect of adding fusel oil to diesel on the performance and the emissions characteristics in a single cylinder CI engine. Journal of the Energy Institute, 2017, 90, 382-396.	5.3	50
13	Calorific value enhancement of fusel oil by moisture removal and its effect on the performance and combustion of a spark ignition engine. Energy Conversion and Management, 2017, 137, 86-96.	9.2	43
14	The effect of thermal cyclic variation on the thermophysical property degradation of paraffin as a phase changing energy storage material. Applied Thermal Engineering, 2019, 149, 22-33.	6.0	43
15	A review of MILD combustion and open furnace design consideration. International Journal of Automotive and Mechanical Engineering, 2012, 6, 730-754.	0.9	35
16	Optimization of Surface Roughness in End Milling Using Potential Support Vector Machine. Arabian Journal for Science and Engineering, 2012, 37, 2269-2275.	1.1	34
17	Response Ant Colony Optimization of End Milling Surface Roughness. Sensors, 2010, 10, 2054-2063.	3.8	33
18	Experimental Investigation into Electrical Discharge Machining of Stainless Steel 304. Journal of Applied Sciences, 2011, 11, 549-554.	0.3	32

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19	Experimental Study on Heat Transfer Coefficient and Friction Factor of Al2O3 Nanofluid in A Packed Bed Column. Journal of Mechanical Engineering and Sciences, 2011, 1, 1-15.	0.6	30
20	Nanoparticles suspended in ethylene glycol thermal properties and applications: An overview. Renewable and Sustainable Energy Reviews, 2017, 69, 1324-1330.	16.4	29
21	Simultaneous reduction of nitric oxide and smoke opacity in TDI dual fuel engine fuelled with calophyllum-diesel blends and waste wood chip gas for modified inlet valve and injector nozzle geometry. Energy, 2019, 189, 116238.	8.8	29
22	The Simulation of Biogas Combustion in A Mild Burner. Journal of Mechanical Engineering and Sciences, 2014, 6, 995-1013.	0.6	29
23	Prediction of marine diesel engine performance by using artificial neural network model. Journal of Mechanical Engineering and Sciences, 2016, 10, 1917-1930.	0.6	28
24	Waste cooking oil blended with the engine oil for reduction of friction and wear on piston skirt. Fuel, 2017, 205, 247-261.	6.4	27
25	Tri-fuel emulsion with secondary atomization attributes for greener diesel engine â€" A critical review. Renewable and Sustainable Energy Reviews, 2019, 111, 490-506.	16.4	24
26	Thermal analysis of cellulose nanocrystal-ethylene glycol nanofluid coolant. International Journal of Heat and Mass Transfer, 2018, 127, 173-181.	4.8	23
27	The impacts of compression ratio on the performance and emissions of ice powered by oxygenated fuels: A review. Journal of the Energy Institute, 2018, 91, 19-32.	5.3	22
28	Experimental investigation on the performance of the TiO2 and ZnO hybrid nanocoolant in ethylene glycol mixture towards AA6061-T6 machining. International Journal of Automotive and Mechanical Engineering, 2017, 14, 3913-3926.	0.9	22
29	Design and Development of MILD Combustion Burner. Journal of Mechanical Engineering and Sciences, 2013, 5, 662-676.	0.6	22
30	Experimental investigation and prediction model for mechanical properties of copper-reinforced polylactic acid composites (Cu-PLA) using FDM-based 3D printing technique. International Journal of Advanced Manufacturing Technology, 2022, 119, 5211-5232.	3.0	22
31	Palm oil based nanofluids for enhancing heat transfer and rheological properties. Heat and Mass Transfer, 2018, 54, 3163-3169.	2.1	21
32	A review of the performance and emissions of nano additives in diesel fuelled compression ignition-engines. IOP Conference Series: Materials Science and Engineering, 0, 469, 012035.	0.6	21
33	Performance of a domestic refrigerator using nanoparticles-based polyolester oil lubricant. Journal of Mechanical Engineering and Sciences, 2016, 10, 1778-1791.	0.6	21
34	Analysis of Recirculation Zone and Ignition Position of Non-Premixed Bluff-Body for Biogas MILD Combustion. International Journal of Automotive and Mechanical Engineering, 2013, 8, 1176-1186.	0.9	19
35	Finite Element Based Fatigue Life Prediction of Cylinder Head for Two-Stroke Linear Engine Using Stress-Life Approach. Journal of Applied Sciences, 2008, 8, 3316-3327.	0.3	19
36	Effects of biodiesel blends and producer gas flow on overall performance of a turbocharged direct injection dual-fuel engine. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-20.	2.3	18

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37	Effect of SiC nanoparticles concentration on novel feedstock Moringa Oleifera chemically treated with neopentylglycol and their trobological behavior. Fuel, 2020, 280, 118630.	6.4	18
38	Effect of Compressed Natural Gas Mixing on the Engine Performance and Emissions. International Journal of Automotive and Mechanical Engineering, 2013, 8, 1416-1429.	0.9	18
39	Optimization of Machining Parameters on Surface Roughness in EDM of Ti-6Al-4V Using Response Surface Method. Advanced Materials Research, 0, 213, 402-408.	0.3	17
40	The Application of Response Surface Methodology in the Investigation of the Tribological Behavior of Palm Cooking Oil Blended in Engine Oil. Advances in Tribology, 2016, 2016, 1-11.	2.1	17
41	The effects of nano-additives on exhaust emissions and toxicity on mankind. Materials Today: Proceedings, 2020, 22, 1181-1185.	1.8	17
42	Heat transfer enhancement using hybrid nanoparticles in ethylene glycol through a horizontal heated tube. International Journal of Automotive and Mechanical Engineering, 2017, 14, 4183-4195.	0.9	17
43	Optimization of Machining Parameters on Tool Wear Rate of Ti-6Al-4V through EDM Using Copper Tungsten Electrode: A Statistical Approach. Advanced Materials Research, 2010, 152-153, 1595-1602.	0.3	16
44	Engine performance, exhaust emission and combustion analysis of a 4-stroke spark ignited engine using dual fuel injection. Fuel, 2017, 207, 719-728.	6.4	16
45	MILD Combustion: the Future for Lean and Clean Combustion Technology. International Review of Mechanical Engineering, 2014, 8, 251.	0.2	16
46	The Influence of Formulation Ratio and Emulsifying Settings on Tri-Fuel (Diesel–Ethanol–Biodiesel) Emulsion Properties. Energies, 2019, 12, 1708.	3.1	15
47	EFFECT OF AIR-FUEL RATIO ON TEMPERATURE DISTRIBUTION AND POLLUTANTS FOR BIOGAS MILD COMBUSTION. International Journal of Automotive and Mechanical Engineering, 2014, 10, 1980-1992.	0.9	15
48	The performance of turbocharged diesel engine with injected calophyllum inophyllum methyl ester blends and inducted babul wood gaseous fuels. Fuel, 2019, 257, 116060.	6.4	14
49	Multiaxial Fatigue Behavior of Cylinder Head for a Free Piston Linear Engine. Journal of Applied Sciences, 2009, 9, 2725-2734.	0.3	14
50	In-Cylinder Heat Transfer Characteristics of Hydrogen Fueled Engine: A Steady State Approach. American Journal of Environmental Sciences, 2010, 6, 124-129.	0.5	13
51	Multi-objective optimization of minimum quantity lubrication in end milling of aluminum alloy AA6061T6. International Journal of Automotive and Mechanical Engineering, 2015, 12, 3003-3017.	0.9	13
52	Mechanical Vapour Compression Refrigeration System: Review Part 1: Environment Challenge. International Journal of Applied Mechanics and Engineering, 2020, 25, 130-147.	0.7	13
53	Finite Element Based Fatigue Life Prediction of a New Free Piston Engine Mounting. Journal of Applied Sciences, 2008, 8, 1612-1621.	0.3	13
54	AIR FUEL RATIO STUDY FOR MIXTURE OF BIOGAS AND HYDROGEN ON MILD COMBUSTION. International Journal of Automotive and Mechanical Engineering, 2014, 10, 2144-2154.	0.9	12

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55	Experimental investigation of parallel type -evacuated tube solar collector using nanofluids. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, , 1-13.	2.3	11
56	Numerical investigation of in-cylinder flow characteristics of hydrogen-fuelled internal combustion engine. Journal of Mechanical Engineering and Sciences, 2016, 10, 1782-1802.	0.6	11
57	Opportunities for Biodiesel Compatibility as a Modern Combustion Engine Fuel. , 2020, , 457-476.		11
58	Support vector machine to predict diesel engine performance and emission parameters fueled with nano-particles additive to diesel fuel. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012069.	0.6	10
59	Tri-fuel (diesel-biodiesel-ethanol) emulsion characterization, stability and the corrosion effect. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012082.	0.6	10
60	CFD modelling of different properties of nanofluids in header and riser tube of flat plate solar collector. IOP Conference Series: Materials Science and Engineering, 0, 469, 012041.	0.6	9
61	Identification of Dynamics Modal Parameter for Car Chassis. IOP Conference Series: Materials Science and Engineering, 2011, 17, 012038.	0.6	8
62	Effect of ZnO nano materials on grinding surface finishing. International Journal of Automotive and Mechanical Engineering, 2015, 12, 2829-2843.	0.9	8
63	The potential of wind and solar energy in Malaysia east coast: preliminary study at Universiti Malaysia Pahang (UMP). WIT Transactions on Ecology and the Environment, 2011, , .	0.0	8
64	Aspects of Wear Mechanisms of Carbide Tools when Machine Hastelloy C-22HS. Advanced Materials Research, 0, 83-86, 295-302.	0.3	7
65	Performance of carbide cutting tools when machining of nickel based alloy. International Journal of Material Forming, 2010, 3, 475-478.	2.0	7
66	Current Research Trends on Dry, Near-Dry and Powder Mixed Electrical Discharge Machining. Advanced Materials Research, 0, 264-265, 956-961.	0.3	7
67	A study of the stabilities, microstructures and fuel characteristics of tri-fuel (diesel-biodiesel-ethanol) using various fuel preparation methods. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012077.	0.6	7
68	Heat Transfer Characteristics of Intake Port for Spark Ignition Engine:A Comparative Study. Journal of Applied Sciences, 2010, 10, 2019-2026.	0.3	7
69	Pattern Recognition Method to Predict Recycling Strategy for Electronic Equipments. Advanced Materials Research, 0, 264-265, 949-955.	0.3	6
70	Hybrid electric vehicle car body drag analysis using computational fluid dynamics. International Journal of Automotive and Mechanical Engineering, 2017, 14, 4496-4507.	0.9	6
71	Effect of Cerbera Manghas Biodiesel on Diesel Engine Performance. International Journal of Automotive and Mechanical Engineering, 2018, 15, 5667-5682.	0.9	6
72	Heat Transfer Characteristics in Exhaust Port for Hydrogen Fueled Port Injection Engine: A Transient Approach. Advanced Materials Research, 0, 152-153, 1909-1914.	0.3	5

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73	Toward a dynamic analysis of bipedal robots inspired by human leg muscles. Journal of Mechanical Engineering and Sciences, 2018, 12, 3593-3604.	0.6	5
74	Machining of Nickel Alloy 242 with Cubic Boron Nitride Tools. Journal of Applied Sciences, 2010, 10, 2322-2327.	0.3	5
75	Compare the forecasting method of artificial neural network and support vector regression model to measure the bullwhip effect in supply chain. Journal of Mechanical Engineering and Sciences, 2019, 13, 4816-4834.	0.6	5
76	Prediction Modelling of Surface Roughness for Laser Beam Cutting on Acrylic Sheets. Advanced Materials Research, 0, 83-86, 793-800.	0.3	4
77	Modelling of Non-Premixed Turbulent Combustion of Hydrogen using Conditional Moment Closure Method. IOP Conference Series: Materials Science and Engineering, 2012, 36, 012036.	0.6	4
78	International regulation of vehicle emissions control rules and its influence on academic engine development experimental study and vehicle manufacturing. IOP Conference Series: Materials Science and Engineering, 0, 469, 012070.	0.6	4
79	Internal energy analysis with nanofluids in header and riser tube of flat plate solar collector by CFD modelling. IOP Conference Series: Materials Science and Engineering, 0, 469, 012069.	0.6	4
80	The performance of an HCCI-DI engine fuelled with palm oil-based biodiesel. IOP Conference Series: Materials Science and Engineering, 2019, 469, 012079.	0.6	4
81	Titanium oxide with nanocoolant for heat exchanger application. Journal of Mechanical Engineering and Sciences, 2017, 11, 2834-2844.	0.6	4
82	AIR FUEL RATIO STUDY FOR MIXTURE OF BIOGAS AND HYDROGEN ON MILD COMBUSTION. International Journal of Automotive and Mechanical Engineering, 2014, 10, 2144-2154.	0.9	4
83	Linear Static Response of Suspension Arm Based on Artificial Neural Network Technique. Advanced Materials Research, 0, 213, 419-426.	0.3	3
84	Development of Strand Burner Test by Using Aluminized AP/HTPB. Materials Science Forum, 2016, 880, 99-104.	0.3	3
85	Transient modelling of heat loading of phase change material for energy storage. MATEC Web of Conferences, 2017, 90, 01078.	0.2	3
86	Nano Gas Bubbles Dissolve in Gasoline Fuel and Its Influence on Engine Combustion Performance. IOP Conference Series: Materials Science and Engineering, 0, 469, 012062.	0.6	3
87	Experimental Investigations of Oxygen Stripping from Feed Water in A Spray Cum Tray Type Deaerator. International Journal of Automotive and Mechanical Engineering, 2010, 1, 46-65.	0.9	3
88	Mechanical behaviour of polymeric foam core at various orientation angles. WIT Transactions on the Built Environment, 2010, , .	0.0	3
89	Fourth Order Torque Prediction Model in End Milling. Journal of Applied Sciences, 2009, 9, 2431-2437.	0.3	3
90	Investigation on modal transient response analysis of engine crankshaft structure. WIT Transactions on the Built Environment, 2010, , .	0.0	3

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91	Optimised tool life by partial swarm optimisation. International Journal of Material Forming, 2010, 3, 479-482.	2.0	2
92	Notice of Retraction: Robust design of suspension arm based on stochastic design improvement. , 2010, , .		2
93	Effect of intake conditions on heat transfer characteristics for port injection hydrogen fueled engine. , 2010, , .		2
94	Modeling, Analysis and Fatigue Life Prediction of Lower Suspension Arm. Advanced Materials Research, 0, 264-265, 1557-1562.	0.3	2
95	Adaptive neuro-fuzzy inference system (ANFIS) to predict CI engine parameters fueled with nano-particles additive to diesel fuel. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012070.	0.6	2
96	Analysis of Modifications on a Spark Ignition Engine for Operation with Natural Gas. MATEC Web of Conferences, 2016, 74, 00031.	0.2	2
97	Numerical modeling on homogeneous charge compression ignition combustion engine fueled by diesel-ethanol blends. MATEC Web of Conferences, 2016, 74, 00037.	0.2	2
98	The two-stroke poppet valve engine. Part 1: Intake and exhaust ports flow experimental assessments. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012023.	0.6	2
99	Effect of oxygenate additive on diesel engine fuel consumption and emissions operating with biodiesel-diesel blend at idling conditions. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012084.	0.6	2
100	Flame ionization testing in an internal combustion engine to measure the speed of the flame for gaseous fuels. IOP Conference Series: Materials Science and Engineering, 2019, 469, 012075.	0.6	2
101	An experimental study of the performance and emission characteristics of a compression ignition (CI) engine fueled with palm oil based biodiesel. AIP Conference Proceedings, 2019, , .	0.4	2
102	Mechanical behavior of hybrid glass Fiber-Jute reinforced with polymer composite for the wall of the Acehnese boat â€˜Jalo Kayohâ€™. IOP Conference Series: Materials Science and Engineering, 2019, 523, 012076.	0.6	2
103	3D cable-based parallel robot simulation using PD control. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012069.	0.6	2
104	Analysis of Non-dimensional Numbers of Fluid Flowing Inside Tubes of Flat Plate Solar Collector. Lecture Notes in Mechanical Engineering, 2021, , 121-131.	0.4	2
105	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.	0.2	2
106	Optimization on Wear Performance of Anti Wear Additive Added Biolubricant. Advanced Structured Materials, 2018, , 1-9.	0.5	2
107	The performance of a single-cylinder diesel engine fuelled with egusi based biodiesel. IOP Conference Series: Materials Science and Engineering, 0, 469, 012045.	0.6	2
108	Experiments on Dissimilar Valve Lift (DVL) for Turbulence Increment on a Bi-Fuel Compressed Natural Gas (CNG) Engine. Defect and Diffusion Forum, 0, 370, 19-28.	0.4	1

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109	Effects of Low Proportion Palm Fatty Acids Methyl Ester Blends on the Performance and Combustion of Marine Diesel Engine. Journal of Biobased Materials and Bioenergy, 2018, 12, 153-160.	0.3	1
110	Stress and Strain Analysis of the Traditional Boat Jaloe Kayoh Made of Composite Materials with Centered Loading Using the Finite Element Method. Lecture Notes in Mechanical Engineering, 2021, , 289-299.	0.4	1
111	Investigation of thermal-hydraulic performance in flat tube heat exchangers at various tube inclination angles. International Journal of Automotive and Mechanical Engineering, 2017, 14, 4542-4560.	0.9	1
112	Effects of Spot Diameter and Sheets Thickness on Fatigue Life of Spot Welded Structure based on FEA Approach. American Journal of Applied Sciences, 2009, 6, 137-142.	0.2	1
113	Durability Assessment of Cylinder Block for Two Stroke Free Piston Linear Engine using Random Loading. American Journal of Applied Sciences, 2009, 6, 726-735.	0.2	1
114	Finite Element Analysis of Strand Burner. Lecture Notes in Mechanical Engineering, 2018, , 705-714.	0.4	1
115	Transient in-Cylinder Gas Flow Characteristics of Single Cylinder Port Injection Hydrogen Fueled Engine. American Journal of Applied Sciences, 2010, 7, 1364-1371.	0.2	0
116	Prediction of Recycle Method Using Relevance Vector Machine. Advanced Materials Research, 2011, 264-265, 943-948.	0.3	0
117	Methods of preparing internal combustion engine cylinder bore surfaces for frictional improvement. MATEC Web of Conferences, 2017, 90, 01055.	0.2	0
118	Investigation on Flow and Heat Transfer of Supercritical CO2 in Helical Coiled Tubes at Various Supercritical Pressures. MATEC Web of Conferences, 2018, 225, 01018.	0.2	0
119	An experimental investigation on the combustion and performance of an HCCI-DI engine. AIP Conference Proceedings, 2019, , .	0.4	0
120	Thermal management of vehicle radiator by nanocellulose with one-dimensional analysis. AIP Conference Proceedings, 2019, , .	0.4	0
121	Nanocellulose as heat transfer liquid in heat exchanger. AIP Conference Proceedings, 2019, , .	0.4	0
122	Diesel and various blending nanoparticles based diesel, fuel properties study. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012061.	0.6	0
123	Concentration measurement on preparation of blending SiO2 nano biodiesel. IOP Conference Series: Materials Science and Engineering, 2020, 736, 022114.	0.6	0
124	Parametric optimisation of supercritical CO_2 thermal-hydraulic characteristics in micro-channels using response surface methodology. Australian Journal of Mechanical Engineering, 2023, 21, 894-910.	2.1	0
125	Prediction modeling of power and torque in end-milling. WIT Transactions on the Built Environment, 2010, , .	0.0	0
126	Development of statistical model to predict R_a and R_z in laser cutting. WIT Transactions on the Built Environment, 2010, , .	0.0	0

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127	Verification of the Dynamic Modeling of 2-R Robot Actuated by (N) Equally Spaced Planet-Gears by Using SolidWorks and MATLAB/SIMULINK. Mechanics and Mechanical Engineering, 2018, 22, 1497-1510.	0.2	0
128	Development of evaporative intercooler heat exchanger for vehicle charge air enhancement using CFD simulation. Journal of Mechanical Engineering and Sciences, 2019, 13, 6195-6217.	0.6	0