

Oluseyi O Ajayi

List of Publications by Year in descending order

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76
papers

1,139
citations

394421

19
h-index

434195

31
g-index

77
all docs

77
docs citations

77
times ranked

816
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of wind energy potential of two sites in North-East, Nigeria. <i>Renewable Energy</i> , 2011, 36, 1277-1283.	8.9	99
2	New model to estimate daily global solar radiation over Nigeria. <i>Sustainable Energy Technologies and Assessments</i> , 2014, 5, 28-36.	2.7	74
3	Effect of potassium-chromate and sodium-nitrite on concrete steel-rebar degradation in sulphate and saline media. <i>Construction and Building Materials</i> , 2014, 50, 448-456.	7.2	70
4	Small hydropower (SHP) development in Nigeria: An assessment. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 2006-2013.	16.4	63
5	Assessment of utilization of wind energy resources in Nigeria. <i>Energy Policy</i> , 2009, 37, 750-753.	8.8	58
6	Nigeria's energy policy: Inferences, analysis and legal ethics toward RE development. <i>Energy Policy</i> , 2013, 60, 61-67.	8.8	57
7	Experimental and Mathematical Modeling for Prediction of Tool Wear on the Machining of Aluminium 6061 Alloy by High Speed Steel Tools. <i>Open Engineering</i> , 2017, 7, 461-469.	1.6	46
8	The Potential for Wind Energy in Nigeria. <i>Wind Engineering</i> , 2010, 34, 303-311.	1.9	34
9	Wind profile characteristics and turbine performance analysis in Kano, north-western Nigeria. <i>International Journal of Energy and Environmental Engineering</i> , 2013, 4, 27.	2.5	34
10	Wind Energy Study and Energy Cost of Wind Electricity Generation in Nigeria: Past and Recent Results and a Case Study for South West Nigeria. <i>Energies</i> , 2014, 7, 8508-8534.	3.1	34
11	Degradation of polynuclear aromatic hydrocarbons by two strains of <i>Pseudomonas</i> . <i>Brazilian Journal of Microbiology</i> , 2016, 47, 551-562.	2.0	33
12	A survey of Artificial Neural Network-based Prediction Models for Thermal Properties of Biomass. <i>Procedia Manufacturing</i> , 2019, 33, 184-191.	1.9	31
13	Investigation of the Effect of R134a/Al ₂ O ₃ Nanofluid on the Performance of a Domestic Vapour Compression Refrigeration System. <i>Procedia Manufacturing</i> , 2019, 35, 112-117.	1.9	28
14	Sustainable energy development and environmental protection: Implication for selected states in West Africa. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 26, 532-539.	16.4	27
15	Availability of wind energy resource potential for power generation at Jos, Nigeria. <i>Frontiers in Energy</i> , 2011, 5, 376-385.	2.3	26
16	Solar regime and LVOE of PV embedded generation systems in Nigeria. <i>Renewable Energy</i> , 2015, 78, 226-235.	8.9	24
17	Non-linear autoregressive neural network (NARNET) with SSA filtering for a university energy consumption forecast. <i>Procedia Manufacturing</i> , 2019, 33, 176-183.	1.9	23
18	Potential and economic viability of standalone hybrid systems for a rural community of Sokoto, North-west Nigeria. <i>Frontiers in Energy</i> , 2014, 8, 145-159.	2.3	19

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19	Optimization of machine downtime in the plastic manufacturing. Cogent Engineering, 2017, 4, 1335444.	2.2	19
20	Influence of pulverized palm kernel and egg shell additives on the hardness, coefficient of friction and microstructure of grey cast iron material for advance applications. Results in Engineering, 2019, 3, 100025.	5.1	19
21	WIND ENERGY POTENTIAL FOR POWER GENERATION OF A LOCAL SITE IN GUSAU, NIGERIA. International Journal of Energy for A Clean Environment, 2010, 11, 99-116.	1.1	18
22	Sustainable energy for national climate change, food security and employment opportunities: Implications for Nigeria. Fuel Communications, 2022, 10, 100045.	5.2	18
23	Degradation Study of Aluminum Alloy in 2 M Hydrochloric Acid in the Presence of Chromolaena odorata. Journal of Engineering and Applied Sciences, 2011, 6, 10-17.	0.2	16
24	Nigeria's Energy Challenge and Power Development: The Way Forward. Energy and Environment, 2009, 20, 411-413.	4.6	15
25	Investigation of the heat transfer effect of Ni/R134a nanorefrigerant in a mobile hybrid powered vapour compression refrigerator. IOP Conference Series: Materials Science and Engineering, 2018, 391, 012001.	0.6	15
26	Potential and econometrics analysis of standalone RE facility for rural community utilization and embedded generation in North-East, Nigeria. Sustainable Cities and Society, 2016, 21, 66-77.	10.4	14
27	CFD Analysis of Nanorefrigerant through Adiabatic Capillary Tube of Vapour Compression Refrigeration System. Procedia Manufacturing, 2017, 7, 688-695.	1.9	14
28	Feasibility and techno-economic assessment of stand-alone and hybrid RE for rural electrification in selected sites of south eastern Nigeria. International Journal of Ambient Energy, 2017, 38, 55-68.	2.5	13
29	Evaluating the Deterioration Behaviour of Mild Steel in 2 M Sulphuric Acid in the Presence of Butyrospermum parkii. Asian Journal of Applied Sciences, 2012, 5, 74-84.	0.4	13
30	Process variability analysis in make-to-order production systems. Cogent Engineering, 2016, 3, 1269382.	2.2	11
31	Experimental Analysis of the Effect of Tri-Nano Additives on Wear Rate of Mild Steel during Machining. Procedia Manufacturing, 2019, 35, 395-400.	1.9	11
32	Investigation of the effects of selected bio-based carburising agents on mechanical and microstructural characteristics of gray cast iron. Heliyon, 2020, 6, e03418.	3.2	11
33	Finite Element Modelling of Electrokinetic Deposition of Zinc on Mild Steel with ZnO-Citrus sinensis as Nano-Additive. Minerals, Metals and Materials Series, 2018, , 199-211.	0.4	10
34	A Reliability-Centered Maintenance Study for an Individual Section-Forming Machine. Machines, 2018, 6, 50.	2.2	10
35	Performance enhancement using appropriate mass charge of R600a in a developed domestic refrigerator. IOP Conference Series: Earth and Environmental Science, 2019, 331, 012025.	0.3	10
36	Investigating the Acid Failure of Aluminium Alloy in 2 M Hydrochloric Acid Using Vernonia amygdalina. ITB Journal of Engineering Science, 2012, 44, 77-92.	0.1	9

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37	Comprehensive data on the mechanical properties and biodegradation profile of polylactide composites developed for hard tissue repairs. <i>Data in Brief</i> , 2020, 32, 106107.	1.0	8
38	On the need for the development of low wind speed turbine generator system. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 331, 012062.	0.3	7
39	Vibration Analysis of the Low Speed Shaft and Hub of a Wind Turbine Using Sub Structuring Techniques. <i>Procedia Manufacturing</i> , 2017, 7, 602-608.	1.9	6
40	Data on the no-load performance analysis of a tomato postharvest storage system. <i>Data in Brief</i> , 2017, 13, 667-674.	1.0	6
41	Review on The Energy and Exergy Analysis of Vapour Compression Refrigeration System Using Nanolubricant. <i>Journal of Physics: Conference Series</i> , 2019, 1378, 042067.	0.4	6
42	Agro Waste A Sustainable Source For Steel Reinforcement-Review. <i>Journal of Physics: Conference Series</i> , 2019, 1378, 032032.	0.4	6
43	Electrochemical study and gravimetric behaviour of gray cast iron in varying concentrations of blends as alternative material for gears in ethanol environment. <i>Journal of Materials Research and Technology</i> , 2020, 9, 7529-7539.	5.8	5
44	Experimental Investigation of the Effect of ZnO-Citrus sinensis Nano-additive on the Electrokinetic Deposition of Zinc on Mild Steel in Acid Chloride. <i>Minerals, Metals and Materials Series</i> , 2018, , 35-40.	0.4	5
45	Analytical Predictive Model for Wind Energy Potential Estimation: A Model for Pre-assessment Study. <i>Journal of Applied Sciences</i> , 2012, 12, 450-458.	0.3	5
46	Effect of Multi-gating System on Solidification of Molten Metals in Spur Gear Casting: A Simulation Approach. <i>Minerals, Metals and Materials Series</i> , 2019, , 667-677.	0.4	4
47	Performance and Energy Consumption Analyses of R290/Bio-Based Nanolubricant as a Replacement for R22 Refrigerant in Air-Conditioning System. <i>Minerals, Metals and Materials Series</i> , 2019, , 103-112.	0.4	4
48	Development of a novel airfoil for low wind speed vertical axis wind turbine using QBlade simulation tool. <i>Fuel Communications</i> , 2021, 9, 100028.	5.2	4
49	Design Optimization of Hot Air Dryer for Yam Flour Chunk. <i>Asian Journal of Scientific Research</i> , 2012, 5, 143-152.	0.1	4
50	Data on drying kinetics of a semi-automated gas-fired fish dryer. <i>Data in Brief</i> , 2018, 18, 641-647.	1.0	3
51	Characterisation of laser metal deposited titanium and molybdenum composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 413, 012067.	0.6	3
52	Constitutive Model to Analyse the effect of Variation in Temperature Distribution on the Rate of Heat Transfer around a Spur Gear Tooth. <i>Procedia Manufacturing</i> , 2019, 35, 236-241.	1.9	3
53	Forensic Investigation of a Failed Intermediate Starwheel Spur Gear Tooth in a Filler Machine. <i>Procedia Manufacturing</i> , 2019, 35, 97-102.	1.9	3
54	Simulation of Crack Growth Rate in Martensitic Steel. <i>Journal of Applied Sciences</i> , 2007, 7, 302-305.	0.3	3

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55	Development of Thermomechanical Model for the Analysis of Effects of Friction and Cutting Speed on Temperature Distribution around AISI 316L During Orthogonal Machining. <i>Procedia Manufacturing</i> , 2017, 7, 682-687.	1.9	2
56	Thermal Performance and Energy Consumption Analyses of R290 and R22 Refrigerants in Air-conditioning System. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 413, 012072.	0.6	2
57	Influence of nanoparticles deposition on surface roughness and heat transfer characteristics of nanofluids – A review. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 331, 012018.	0.3	2
58	Predictive Modelling of a K-Unit Bottling Plants for Reliability Improvement. <i>Procedia Manufacturing</i> , 2019, 35, 91-96.	1.9	2
59	Modelling and Simulation of Mechanical Wear of Carburized Cutting Tool. <i>Procedia Manufacturing</i> , 2019, 35, 1067-1072.	1.9	2
60	Effect of controlled pH and concentrations of copper sulphate and silver nitrate solutions during nanoparticles synthesis towards modifying compressor oil yield stress and lubricity for improved refrigeration. <i>Heat and Mass Transfer</i> , 2020, 56, 931-961.	2.1	2
61	Investigating the electron tunneling effect on photovoltaic performance of almond (<i>Prunus dulcis</i>) dye-sensitized solar cell. <i>Heliyon</i> , 2020, 6, e02961.	3.2	2
62	On the prediction of power loss in helical gearbox via simulation approach. <i>Cleaner Engineering and Technology</i> , 2021, 3, 100128.	4.0	2
63	Performance Evaluation and Multidoped Composite Conditioned of A5-type/10%Ti-Sn Alloy: Processing and Properties. <i>Journal of Failure Analysis and Prevention</i> , 2016, 16, 135-141.	0.9	1
64	Experimental Investigation and FE Simulation of the Effect of Variable Control on Temperature Distribution in Orthogonal Metal Cutting Process. <i>Procedia Manufacturing</i> , 2017, 7, 675-681.	1.9	1
65	Influence of n-Mosfet transistor on dye-sensitized solar cell efficiency. <i>Heliyon</i> , 2018, 4, e01078.	3.2	1
66	Investigation of effect of batch-separation on the micro-energy generation in <i>M.indica</i> L. dye-sensitized Solar Cells. <i>Procedia Manufacturing</i> , 2019, 35, 1273-1278.	1.9	1
67	Quenching A Significant Index Control In Heat Treatment – An Overview. <i>Journal of Physics: Conference Series</i> , 2019, 1378, 032034.	0.4	1
68	Effects of Heat Treatment Techniques on the Fatigue Behaviour of Steel Gears: A Review. <i>Journal of Physics: Conference Series</i> , 2019, 1378, 042001.	0.4	1
69	Corrosion Behavior of Mild Steel in Different Concentrations of Ethanol Beverages. <i>Journal of Bio-and Tribo-Corrosion</i> , 2020, 6, 1.	2.6	1
70	Queueing Theory an Index Factor for Production Inventory Control in Automotive Industry – A Review. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 853-860.	0.4	1
71	Modelling and Control of Flow Induced Vibration of Top – Tensioned Marine Risers Using Analytical Methods. <i>Procedia Manufacturing</i> , 2017, 7, 609-615.	1.9	0
72	Analysis of Tyndall effect on output performance of <i>P.macrophylla</i> Benth. dye-sensitized solar cells. <i>Procedia Manufacturing</i> , 2019, 35, 529-534.	1.9	0

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73	Effects of Heat Treatment Techniques on the Fatigue Behaviour of Steel Gears: A Review. Journal of Physics: Conference Series, 2019, 1378, 032056.	0.4	0
74	Average Weight Based Quality Control of Nigeria Bakery Industry: A Statistical Approach. American Journal of Food Technology, 2007, 2, 212-216.	0.2	0
75	Impact of Working Fluids and Performance of Isobutane in the Refrigeration System. , 0, , .		0
76	Failure Mode and Cost Effect Analysis of a Model Bone Crushing Hammer. Key Engineering Materials, 0, 917, 63-69.	0.4	0