

Muyiwa S Adaramola

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

3,751
citations

109321

35
h-index

133252

59
g-index

103
all docs

103
docs citations

103
times ranked

2986
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of wake effects on wind turbine performance. <i>Renewable Energy</i> , 2011, 36, 2078-2086.	8.9	284
2	Solar energy applications and development in Nigeria: Drivers and barriers. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 32, 294-301.	16.4	183
3	Assessment of decentralized hybrid PV solar-diesel power system for applications in Northern part of Nigeria. <i>Energy for Sustainable Development</i> , 2014, 19, 72-82.	4.5	162
4	Preliminary assessment of a small-scale rooftop PV-grid tied in Norwegian climatic conditions. <i>Energy Conversion and Management</i> , 2015, 90, 458-465.	9.2	156
5	Analysis of hybrid energy systems for application in southern Ghana. <i>Energy Conversion and Management</i> , 2014, 88, 284-295.	9.2	149
6	Assessment of electricity generation and energy cost of wind energy conversion systems in north-central Nigeria. <i>Energy Conversion and Management</i> , 2011, 52, 3363-3368.	9.2	132
7	Assessment of wind power generation along the coast of Ghana. <i>Energy Conversion and Management</i> , 2014, 77, 61-69.	9.2	125
8	Performance and near wake measurements of a model horizontal axis wind turbine. <i>Wind Energy</i> , 2012, 15, 743-756.	4.2	114
9	Estimating global solar radiation using common meteorological data in Akure, Nigeria. <i>Renewable Energy</i> , 2012, 47, 38-44.	8.9	111
10	Viability of grid-connected solar PV energy system in Jos, Nigeria. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 61, 64-69.	5.5	111
11	Performance analysis of different grid-connected solar photovoltaic (PV) system technologies with combined capacity of 20kW located in humid tropical climate. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4626-4635.	7.1	105
12	Analysis of wind speed data and wind energy potential in three selected locations in south-east Nigeria. <i>International Journal of Energy and Environmental Engineering</i> , 2012, 3, 1.	2.5	101
13	Wind energy evaluation for electricity generation using WECS in seven selected locations in Nigeria. <i>Applied Energy</i> , 2011, 88, 3197-3206.	10.1	90
14	Turbulent wake of a finite circular cylinder of small aspect ratio. <i>Journal of Fluids and Structures</i> , 2006, 22, 919-928.	3.4	83
15	Techno-economic analysis of a 2.1 kW rooftop photovoltaic-grid-tied system based on actual performance. <i>Energy Conversion and Management</i> , 2015, 101, 85-93.	9.2	73
16	Performance evaluation of a utility-scale grid-tied solar photovoltaic (PV) installation in Ghana. <i>Energy for Sustainable Development</i> , 2019, 48, 82-87.	4.5	69
17	Wind tunnel experiments on wind turbine wakes in yaw: effects of inflow turbulence and shear. <i>Wind Energy Science</i> , 2018, 3, 329-343.	3.3	69
18	A Review of Commercial Biogas Systems and Lessons for Africa. <i>Energies</i> , 2018, 11, 2984.	3.1	68

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19	The role of nanoparticles on biofuel production and as an additive in ternary blend fuelled diesel engine: A review. <i>Energy Reports</i> , 2021, 7, 3614-3627.	5.1	68
20	Ageing and degradation in solar photovoltaic modules installed in northern Ghana. <i>Solar Energy</i> , 2018, 173, 834-847.	6.1	60
21	Socio-economic and environmental impacts of rural electrification with Solar Photovoltaic systems: Evidence from southern Ethiopia. <i>Energy for Sustainable Development</i> , 2021, 60, 52-66.	4.5	58
22	Multipurpose renewable energy resources based hybrid energy system for remote community in northern Ghana. <i>Sustainable Energy Technologies and Assessments</i> , 2017, 22, 161-170.	2.7	55
23	Generation of a typical meteorological year for north-east, Nigeria. <i>Applied Energy</i> , 2013, 112, 152-159.	10.1	53
24	Solar Photovoltaics in Sub-Saharan Africa – Addressing Barriers, Unlocking Potential. <i>Energy Procedia</i> , 2016, 106, 97-110.	1.8	51
25	On wind speed pattern and energy potential in Nigeria. <i>Energy Policy</i> , 2011, 39, 2501-2506.	8.8	50
26	Determinants of household energy choices in rural sub-Saharan Africa: An example from southern Ethiopia. <i>Energy</i> , 2021, 221, 119785.	8.8	45
27	Economic analysis of wind energy conversion systems using levelized cost of electricity and present value cost methods in Nigeria. <i>International Journal of Energy and Environmental Engineering</i> , 2013, 4, 2.	2.5	44
28	“Blind Test” calculations of the performance and wake development behind two in-line and offset model wind turbines. <i>Journal of Fluids and Structures</i> , 2015, 52, 65-80.	3.4	44
29	Reliability and Degradation of Solar PV Modules – Case Study of 19-Year-Old Polycrystalline Modules in Ghana. <i>Technologies</i> , 2017, 5, 22.	5.1	43
30	The effect of climate change on solar radiation in Nigeria. <i>Solar Energy</i> , 2015, 116, 272-286.	6.1	42
31	Techno-economic analysis of a hybrid system to power a mine in an off-grid area in Ghana. <i>Sustainable Energy Technologies and Assessments</i> , 2017, 23, 48-56.	2.7	42
32	Evaluating the performance of wind turbines in selected locations in Oyo state, Nigeria. <i>Renewable Energy</i> , 2011, 36, 3297-3304.	8.9	41
33	Towards accelerating the deployment of decentralised renewable energy mini-grids in Ghana: Review and analysis of barriers. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110408.	16.4	40
34	Investigation of Solar Photovoltaic-Thermal (PVT) and Solar Photovoltaic (PV) Performance: A Case Study in Ghana. <i>Energies</i> , 2020, 13, 2701.	3.1	39
35	Comparative techno-economic assessment of a converted DC refrigerator and a conventional AC refrigerator both powered by solar PV. <i>International Journal of Refrigeration</i> , 2016, 72, 1-11.	3.4	38
36	Assessment of early degradation and performance loss in five co-located solar photovoltaic module technologies installed in Ghana using performance ratio time-series regression. <i>Renewable Energy</i> , 2019, 131, 900-910.	8.9	36

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37	Study effect of flow rate on flat-plate water-based photovoltaic-thermal (PVT) system performance by analytical technique. <i>Journal of Cleaner Production</i> , 2021, 321, 128985.	9.3	36
38	Economic Assessment of Water Pumping Systems Using Wind Energy Conversion Systems in the Southern Part of Nigeria. <i>Energy Exploration and Exploitation</i> , 2012, 30, 1-17.	2.3	33
39	Potential environmental impacts of small-scale renewable energy technologies in East Africa: A systematic review of the evidence. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 111, 377-391.	16.4	33
40	Techno-economic feasibility study of autonomous hybrid wind and solar power systems for rural areas in Iran, A case study in Mocheydar village. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 1521-1527.	2.3	32
41	Effect of velocity ratio on the streamwise vortex structures in the wake of a stack. <i>Journal of Fluids and Structures</i> , 2010, 26, 1-18.	3.4	31
42	Technical and Economic Assessment of Hybrid Energy Systems in South-West Nigeria. <i>Energy Exploration and Exploitation</i> , 2012, 30, 533-551.	2.3	29
43	Comparative study of performance degradation in poly- and mono-crystalline-Si solar PV modules deployed in different applications. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3092-3109.	7.1	29
44	Performance evaluation of wind turbines for energy generation in Niger Delta, Nigeria. <i>Sustainable Energy Technologies and Assessments</i> , 2014, 6, 75-85.	2.7	27
45	Blind test comparison on the wake behind a yawed wind turbine. <i>Wind Energy Science</i> , 2018, 3, 883-903.	3.3	25
46	Correlations for estimating solar radiation using sunshine hours and temperature measurement in Osogbo, Osun State, Nigeria. <i>Frontiers in Energy</i> , 2013, 7, 214-222.	2.3	24
47	Adoption of solar photovoltaic systems in households: Evidence from Uganda. <i>Journal of Cleaner Production</i> , 2021, 329, 129619.	9.3	22
48	Techno-economic evaluation of wind energy in southwest Nigeria. <i>Frontiers in Energy</i> , 2012, 6, 366-378.	2.3	21
49	Validation of kinematic wind turbine wake models in complex terrain using actual windfarm production data. <i>Energy</i> , 2017, 123, 742-753.	8.8	21
50	A preliminary sensitivity study of Planetary Boundary Layer parameterisation schemes in the weather research and forecasting model to surface winds in coastal Ghana. <i>Renewable Energy</i> , 2020, 146, 66-86.	8.9	20
51	Comparative study on the wake deflection behind yawed wind turbine models. <i>Journal of Physics: Conference Series</i> , 2017, 854, 012032.	0.4	18
52	Analysis of potential fuel savings, economic and environmental effects of improved biomass cookstoves in rural Ethiopia. <i>Journal of Cleaner Production</i> , 2021, 280, 124700.	9.3	17
53	Techno-economic assessment of 10MW centralised grid-tied solar photovoltaic system in Uganda. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100928.	5.7	17
54	An experimental study on the effects of winglets on the tip vortex interaction in the near wake of a model wind turbine. <i>Wind Energy</i> , 2020, 23, 1286-1300.	4.2	16

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55	Development of High Performance Airfoils for Application in Small Wind Turbine Power Generation. <i>Journal of Energy</i> , 2020, 2020, 1-9.	3.2	14
56	Generating temperature cycle profile from in-situ climatic condition for accurate prediction of thermo-mechanical degradation of c-Si photovoltaic module. <i>Engineering Science and Technology, an International Journal</i> , 2019, 22, 502-514.	3.2	13
57	Degradation and longevity of solar photovoltaic modules—An analysis of recent field studies in Ghana. <i>Energy Science and Engineering</i> , 2020, 8, 2116-2128.	4.0	12
58	Estimating Market Potential for Solar Photovoltaic Systems in Uganda. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	12
59	Techno-economic analysis of solar photovoltaic (PV) and solar photovoltaic thermal (PVT) systems using exergy analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101520.	2.7	12
60	Cost-competitiveness of distributed grid-connected solar photovoltaics in Ghana: case study of a 4kWp polycrystalline system. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 2431-2442.	4.1	11
61	Expansive shrubs: Expansion factors and ecological impacts in northern Ethiopia. <i>Journal for Nature Conservation</i> , 2021, 61, 125996.	1.8	11
62	A sensitivity study of Surface Wind simulations over Coastal Ghana to selected Time Control and Nudging options in the Weather Research and Forecasting Model. <i>Heliyon</i> , 2019, 5, e01385.	3.2	10
63	Assessing wind energy development in Uganda: Opportunities and challenges. <i>Wind Engineering</i> , 2021, 45, 1714-1732.	1.9	10
64	Turbulent wake and vortex shedding for a stack partially immersed in a turbulent boundary layer. <i>Journal of Fluids and Structures</i> , 2007, 23, 1189-1206.	3.4	9
65	A Typical Meteorological Year Generation Based on NASA Satellite Imagery (GEOS-I) for Sokoto, Nigeria. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-7.	2.5	9
66	The effect of the number of blades on wind turbine wake - a comparison between 2-and 3-bladed rotors. <i>Journal of Physics: Conference Series</i> , 2016, 753, 032017.	0.4	9
67	Economic assessment of a-Si and CIS thin film solar PV technologies in Ghana. <i>Sustainable Energy Technologies and Assessments</i> , 2016, 18, 164-174.	2.7	9
68	Photovoltaic performance prediction in Northern Nigeria using generated typical meteorological year dataset. <i>African Journal of Science, Technology, Innovation and Development</i> , 2018, 10, 579-591.	1.6	9
69	Solar radiation variability in Nigeria based on multiyear RegCM3 simulations. <i>Renewable Energy</i> , 2015, 74, 195-207.	8.9	8
70	TECHNO-ECONOMICS OF SOLAR PV-DIESEL HYBRID POWER SYSTEMS FOR OFF-GRID OUTDOOR BASE TRANSCIEVER STATIONS IN GHANA. <i>International Journal of Energy for A Clean Environment</i> , 2017, 18, 61-78.	1.1	8
71	Assessment of global solar radiation estimates across different regions of Togo, West Africa. <i>Meteorology and Atmospheric Physics</i> , 2022, 134, 1.	2.0	8
72	The effect of rotational direction on the wake of a wind turbine rotor – a comparison study of aligned co- and counter rotating turbine arrays. <i>Energy Procedia</i> , 2017, 137, 238-245.	1.8	7

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73	Automated classification of simulated wind field patterns from multiphysics ensemble forecasts. <i>Wind Energy</i> , 2020, 23, 898-914.	4.2	7
74	Overview of hydropower resources and development in Uganda. <i>AIMS Energy</i> , 2021, 9, 1299-1320.	1.9	7
75	Aerodynamic performance characteristics of EYO-Series low Reynolds number airfoils for small wind turbine applications. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 12301-12310.	6.4	7
76	Analysing household biogas utilization and impact in rural Ethiopia: Lessons and policy implications for sub-Saharan Africa. <i>Scientific African</i> , 2020, 9, e00474.	1.5	6
77	Feasibility Study of Off-grid Hybrid Energy Systems for Applications in Ondo State Nigeria. <i>Journal of Engineering and Applied Sciences</i> , 2012, 7, 72-78.	0.2	6
78	Characteristics of turbulent flow in the near wake of a stack. <i>Experimental Thermal and Fluid Science</i> , 2012, 40, 64-73.	2.7	5
79	Comparative analysis of three numerical methods for estimating the onshore wind power in a coastal area. <i>International Journal of Ambient Energy</i> , 2018, 39, 58-72.	2.5	5
80	An assessment of high-resolution wind speeds downscaled with the Weather Research and Forecasting Model for coastal areas in Ghana. <i>Heliyon</i> , 2021, 7, e07768.	3.2	5
81	Ex-post design, operations and financial cost-benefit analysis of mini-grids in Ghana: What can we learn?. <i>Energy for Sustainable Development</i> , 2022, 68, 390-409.	4.5	5
82	Analysis of Energy Utilization in Selected Industries in Southwestern Nigeria. <i>Energy Engineering: Journal of the Association of Energy Engineers</i> , 2015, 112, 47-74.	0.5	4
83	Degradation analysis of Solar photovoltaic module under warm semiarid and tropical savanna climatic conditions of East Africa. <i>International Journal of Energy and Environmental Engineering</i> , 2022, 13, 431-447.	2.5	4
84	Investigation of combustion, performance, and emissions of biodiesel blends using graphene nanoparticle as an additive. <i>International Journal of Engine Research</i> , 2023, 24, 4459-4469.	2.3	4
85	An Assessment of Grid-Charged Inverter-Battery Systems for Domestic Applications in Ghana. <i>Journal of Solar Energy</i> , 2016, 2016, 1-11.	0.8	3
86	Impact of Selected Options in the Weather Research and Forecasting Model on Surface Wind Hindcasts in Coastal Ghana. <i>Energies</i> , 2019, 12, 3670.	3.1	3
87	Carbon Stock and Soil Characteristics under Expansive Shrubs in the Dry Afromontane Forest in Northern Ethiopia. <i>International Journal of Forestry Research</i> , 2021, 2021, 1-10.	0.8	3
88	Analysis of Turbulent Flow Past Bar-Racks. , 2014, , .		2
89	Distribution and temporal variability of the solar resource at a site in south-east Norway. <i>Frontiers in Energy</i> , 2016, 10, 375-381.	2.3	2
90	Economic Analysis and Potential Feed-in Tariff of Grid-Connected PV Systems in Nigeria. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 305-314.	2.3	2

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91	Implementation and Status of Biogas Technology in Ethiopia- Case of Tigray Region. Momona Ethiopian Journal of Science, 2021, 12, 257-273.	0.3	2
92	Examination of heat transfer performance of a nonimaging hybrid compound parabolic collector in low latitude and cloudy region. Environmental Progress and Sustainable Energy, 2020, 39, e13339.	2.3	1
93	Assessment of Biofuel Resource Potential, Prospects, Challenges and Utilization in Ethiopia: Sourcing Strategies for Renewable Energies- A Review. IOP Conference Series: Materials Science and Engineering, 2021, 1104, 012003.	0.6	1
94	Cooking fuel choices of households in urban areas in Uganda: a multinomial probit regression analysis. International Journal of Building Pathology and Adaptation, 2022, 40, 283-298.	1.3	1
95	Influence of short roughness strip on the turbulent boundary layer structure. Thermophysics and Aeromechanics, 2007, 14, 125-132.	0.5	0
96	Higher-order moments of velocity fluctuations in the wake of a short stack. Journal of Physics: Conference Series, 2011, 318, 032040.	0.4	0
97	Performance and wake development behind two in-line and offset model wind turbines – "Blind test" experiments and calculations. Journal of Physics: Conference Series, 2014, 524, 012171.	0.4	0
98	Examination of Reynolds number effect on the development of round jet flow. EUREKA, Physics and Engineering, 2021, , 39-47.	0.8	0