

# Fidelis Abam

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

851  
citations

516710

16  
h-index

501196

28  
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53  
all docs

53  
docs citations

53  
times ranked

546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy and exergy analysis of solar dryer with triple air passage direction collector powered by a wind generator. <i>International Journal of Energy and Environmental Engineering</i> , 2023, 14, 63-77.	2.5	11
2	Techno-Economic Analysis and Neuro-Fuzzy Production Rate Prediction of Sorghum (Sorghum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	1.7	2
3	Optimization of the energy consumption, drying kinetics and evolution of thermo-physical properties of drying of forage grass for haymaking. <i>Heat and Mass Transfer</i> , 2022, 58, 1187-1206.	2.1	7
4	Projection of sustainability indicators, emissions and improvement potential of the energy drivers in the Nigerian transport sector based on exergy procedure. <i>Scientific African</i> , 2022, 16, e01175.	1.5	4
5	A Perspective Review on Thermal Conductivity of Hybrid Nanofluids and Their Application in Automobile Radiator Cooling. <i>Journal of Nanotechnology</i> , 2022, 2022, 1-51.	3.4	14
6	Analysis of the Heat Transfer Coefficient, Thermal Effusivity and Mathematical Modelling of Drying Kinetics of a Partitioned Single Pass Low-Cost Solar Drying of Cocoyam Chips with Economic Assessments. <i>Energies</i> , 2022, 15, 4457.	3.1	11
7	Nigeria's Energy deficit: The challenges and Eco- friendly approach in reducing the energy gap. <i>International Journal of Sustainable Engineering</i> , 2021, 14, 442-459.	3.5	7
8	Diagnostic and prognostic development of a mechanistic model for multiphase flow in oil-gas pipelines. <i>Journal of King Saud University, Engineering Sciences</i> , 2021, . .	2.0	1
9	Computational design and static-structural analysis of a small-scale turbojet propulsive engine for an unmanned aerial vehicle. <i>Nigerian Journal of Technological Research</i> , 2021, 16, 34-42.	0.1	0
10	Particle-Transport Mechanism in Liquid/Liquid/Solid Multiphase Pipeline Flow of High-Viscosity Oil/Water/Sand. <i>SPE Journal</i> , 2021, , 1-16.	3.1	4
11	Comparative evaluation of homogenous and drift-flux models for a three-phase downward flow in a pipe. <i>Scientific African</i> , 2021, , e00898.	1.5	1
12	Physics-based numerical simulation of heat and moisture transport in red chili subjected to mixed-mode solar drying with phase change energy storage. <i>Energy Storage</i> , 2021, 3, e270.	4.3	3
13	Environmental sustainability of the Nigeria transport sector through decomposition and decoupling analysis with future framework for sustainable transport pathways. <i>Energy Reports</i> , 2021, 7, 3238-3248.	5.1	16
14	Exergoeconomic and Environmental Modeling of Integrated Polygeneration Power Plant with Biomass-Based Syngas Supplemental Firing. <i>Energies</i> , 2020, 13, 6018.	3.1	18
15	Thermodynamic and economic analysis of a Kalina system with integrated lithium-bromide-absorption cycle for power and cooling production. <i>Energy Reports</i> , 2020, 6, 1992-2005.	5.1	26
16	Development and modelling of heat and mass transfer analysis of a low-cost solar dryer integrated with biomass heater: Application for West African Region. <i>Scientific African</i> , 2020, 10, e00615.	1.5	18
17	Development of a low-cost wind-powered active solar dryer integrated with glycerol as thermal storage. <i>Renewable Energy</i> , 2020, 154, 553-568.	8.9	85
18	Exergetic sustainability and economic analysis of hybrid solar-biomass dryer integrated with copper tubing as heat exchanger. <i>Heliyon</i> , 2020, 6, e03401.	3.2	83

#	ARTICLE	IF	CITATIONS
19	In-Situ Evolution of Heat and Mass Transfer Phenomena and Evaporative Water Losses of Three Agro-Waste Evaporative Cooling Pads: An Experimental and Modeling Study. Waste and Biomass Valorization, 2019, 10, 3185-3195.	3.4	7
20	Response surface optimization of Bambara nut kernel yield as affected by speed of rotation, and impeller configurations. Scientific African, 2019, 6, e00174.	1.5	3
21	Improved Markov stable state simulation for maintenance planning. Journal of Quality in Maintenance Engineering, 2019, 25, 199-212.	1.7	0
22	Evaluation of Interfacial Friction Models in Stratified Flow: Gas-Liquid Two-Phase Flow. , 2019, , .		1
23	Exergy analysis of a novel low-heat recovery organic Rankine cycle (ORC) for combined cooling and power generation. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 1649-1662.	2.3	10
24	A comparative performance analysis and thermo-sustainability indicators of modified low-heat organic Rankine cycles (ORCs): An exergy-based procedure. Energy Reports, 2018, 4, 110-118.	5.1	34
25	Thermodynamic performance and environmental sustainability of adapted organic Rankine cycles at varying evaporator pressure. International Journal of Ambient Energy, 2018, 39, 332-342.	2.5	3
26	Applications of small-scale, stand-alone wind energy conversion systems in rural Cross River State, Nigeria. African Journal of Science, Technology, Innovation and Development, 2018, 10, 539-550.	1.6	0
27	Optimum exergetic performance parameters and thermo-sustainability indicators of low-temperature modified organic Rankine cycles (ORCs). Sustainable Energy Technologies and Assessments, 2018, 30, 91-104.	2.7	20
28	Photovoltaic performance prediction in Northern Nigeria using generated typical meteorological year dataset. African Journal of Science, Technology, Innovation and Development, 2018, 10, 579-591.	1.6	9
29	Experience of Solar Drying in Africa: Presentation of Designs, Operations, and Models. Food Engineering Reviews, 2018, 10, 211-244.	5.9	38
30	Performance of a hydrocarbon driven domestic refrigerator based on varying concentration of SiO <sub>2</sub> nano-lubricant. International Journal of Refrigeration, 2018, 94, 59-70.	3.4	40
31	Off-wing fleet maintenance study of a CFM56-3B turbofan engine: the propulsive engine of Boeing 737-300 civil aircraft.. Nigerian Journal of Technological Research, 2018, 13, 72.	0.1	1
32	Parametric Optimization of Improved Cassava Attrition Peeling Machine Using RSM Based Desirability Function. International Review of Mechanical Engineering, 2018, 12, 823.	0.2	0
33	Combined cycle performance evaluation of a simple and adapted aeroderivative gas turbines. Nigerian Journal of Technological Research, 2018, 13, 39.	0.1	0
34	Economics of wind energy utilisation for water pumping and CO <sub>2</sub> mitigation potential in Niger Delta, Nigeria. International Journal of Ambient Energy, 2017, 38, 229-239.	2.5	8
35	Exergetic performance indicators of a direct evaporative cooling system with different evaporative cooling pads. International Journal of Ambient Energy, 2017, 38, 701-709.	2.5	23
36	Investigation of intercooler-effectiveness on exergo-economic and exergo-sustainability parameters of modified Brayton cycles. Case Studies in Thermal Engineering, 2017, 10, 9-18.	5.7	8

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37	Performance evaluation of aeroderivative gas turbine models derived from a high bypass turbofan for industrial power generation. Cogent Engineering, 2017, 4, 1301235.	2.2	4
38	Heat and mass transfer parameters in the drying of cocoyam slice. Case Studies in Thermal Engineering, 2017, 9, 62-71.	5.7	43
39	Experimental investigation of TiO <sub>2</sub> , SiO <sub>2</sub> - and Al <sub>2</sub> O <sub>3</sub> -lubricants for a domestic refrigerator system using LPG as working fluid. Applied Thermal Engineering, 2017, 127, 1469-1477.	6.0	62
40	Energy and exergy analysis of a solar dryer integrated with sodium sulfate decahydrate and sodium chloride as thermal storage medium. Renewable Energy, 2017, 113, 1182-1192.	8.9	99
41	Cost performance analysis of small scale automotive maintenance firms in Calabar metropolis. Cogent Engineering, 2017, 4, 1369233.	2.2	0
42	Cycle parametric study on the performance of aeroderivative gas turbine models developed from a high bypass turbofan engine. Cogent Engineering, 2017, 4, 1368115.	2.2	0
43	CFD evaluation of pressure drop across a 3-D filter housing for industrial gas turbine plants. Frontiers in Energy, 2016, 10, 192-202.	2.3	5
44	Economic cost evaluation on the viability of offshore wind turbine farms in Nigeria. Energy Reports, 2016, 2, 48-53.	5.1	30
45	Performance modeling of industrial gas turbines with inlet air filtration system. Case Studies in Thermal Engineering, 2015, 5, 160-167.	5.7	25
46	A Typical Meteorological Year Generation Based on NASA Satellite Imagery (GEOS-I) for Sokoto, Nigeria. International Journal of Photoenergy, 2014, 2014, 1-7.	2.5	9
47	End-use energy utilization efficiency of Nigerian residential sector. Frontiers in Energy, 2014, 8, 322-334.	2.3	8
48	Energy resource structure and on-going sustainable development policy in Nigeria: a review. International Journal of Energy and Environmental Engineering, 2014, 5, 1.	2.5	19
49	The Effect of Seasonal Variation and Angle of Inclination on the Performances of Photovoltaic Panels in South Eastern Nigeria. Research Journal of Applied Sciences, Engineering and Technology, 2013, 5, 794-800.	0.1	2
50	Performance Analysis and Components Irreversibilities of a (25 MW) Gas Turbine Power Plant Modeled with a Spray Cooler. American Journal of Engineering and Applied Sciences, 2012, 5, 35-41.	0.6	22
51	Performance and thermo-sustainability analysis of non-hybrid organic Rankine cycles (ORCs) at varying heat source and evaporator conditions. Australian Journal of Mechanical Engineering, 0, , 1-14.	2.1	2
52	Parametric studies of heat and mass transfer process for two-stage biochar production from poultry litter pellet biomass. Biomass Conversion and Biorefinery, 0, , .	4.6	5