

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
g-index

53
all docs

53
docs citations

53
times ranked

546
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy and exergy analysis of a solar dryer integrated with sodium sulfate decahydrate and sodium chloride as thermal storage medium. <i>Renewable Energy</i> , 2017, 113, 1182-1192.	8.9	99
2	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
3	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
4	Experimental investigation of TiO ₂ -, SiO ₂ - and Al ₂ O ₃ -lubricants for a domestic refrigerator system using LPG as working fluid. <i>Applied Thermal Engineering</i> , 2017, 127, 1469-1477.	6.0	62
5	Heat and mass transfer parameters in the drying of cocoyam slice. <i>Case Studies in Thermal Engineering</i> , 2017, 9, 62-71.	5.7	43
6	Performance of a hydrocarbon driven domestic refrigerator based on varying concentration of SiO ₂ nano-lubricant. <i>International Journal of Refrigeration</i> , 2018, 94, 59-70.	3.4	40
7	Experience of Solar Drying in Africa: Presentation of Designs, Operations, and Models. <i>Food Engineering Reviews</i> , 2018, 10, 211-244.	5.9	38
8	A comparative performance analysis and thermo-sustainability indicators of modified low-heat organic Rankine cycles (ORCs): An exergy-based procedure. <i>Energy Reports</i> , 2018, 4, 110-118.	5.1	34
9	Economic cost evaluation on the viability of offshore wind turbine farms in Nigeria. <i>Energy Reports</i> , 2016, 2, 48-53.	5.1	30
10	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
11	Performance modeling of industrial gas turbines with inlet air filtration system. <i>Case Studies in Thermal Engineering</i> , 2015, 5, 160-167.	5.7	25
12	Exergetic performance indicators of a direct evaporative cooling system with different evaporative cooling pads. <i>International Journal of Ambient Energy</i> , 2017, 38, 701-709.	2.5	23
13	Performance Analysis and Components Irreversibilities of a (25 MW) Gas Turbine Power Plant Modeled with a Spray Cooler. <i>American Journal of Engineering and Applied Sciences</i> , 2012, 5, 35-41.	0.6	22
14	Optimum exergetic performance parameters and thermo-sustainability indicators of low-temperature modified organic Rankine cycles (ORCs). <i>Sustainable Energy Technologies and Assessments</i> , 2018, 30, 91-104.	2.7	20
15	Energy resource structure and on-going sustainable development policy in Nigeria: a review. <i>International Journal of Energy and Environmental Engineering</i> , 2014, 5, 1.	2.5	19
16	Exergoeconomic and Environmental Modeling of Integrated Polygeneration Power Plant with Biomass-Based Syngas Supplemental Firing. <i>Energies</i> , 2020, 13, 6018.	3.1	18
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Exergy analysis of a novel low-heat recovery organic Rankine cycle (ORC) for combined cooling and power generation. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, 41, 1649-1662.	2.3	10
23	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
24	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
25	End-use energy utilization efficiency of Nigerian residential sector. <i>Frontiers in Energy</i> , 2014, 8, 322-334.	2.3	8
26	Economics of wind energy utilisation for water pumping and CO ₂ mitigation potential in Niger Delta, Nigeria. <i>International Journal of Ambient Energy</i> , 2017, 38, 229-239.	2.5	8
27	Investigation of intercooler-effectiveness on exergo-economic and exergo-sustainability parameters of modified Brayton cycles. <i>Case Studies in Thermal Engineering</i> , 2017, 10, 9-18.	5.7	8
28	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. <i>Waste and Biomass Valorization</i> , 2019, 10, 3185-3195.	3.4	7
29	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
30	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
31	CFD evaluation of pressure drop across a 3-D filter housing for industrial gas turbine plants. <i>Frontiers in Energy</i> , 2016, 10, 192-202.	2.3	5
32	Parametric studies of heat and mass transfer process for two-stage biochar production from poultry litter pellet biomass. <i>Biomass Conversion and Biorefinery</i> , 0, , .	4.6	5
33	Performance evaluation of aeroderivative gas turbine models derived from a high bypass turbofan for industrial power generation. <i>Cogent Engineering</i> , 2017, 4, 1301235.	2.2	4
34	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
35	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
36	Thermodynamic performance and environmental sustainability of adapted organic Rankine cycles at varying evaporator pressure. <i>International Journal of Ambient Energy</i> , 2018, 39, 332-342.	2.5	3

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37	Response surface optimization of Bambara nut kernel yield as affected by speed of rotation, and impeller configurations. <i>Scientific African</i> , 2019, 6, e00174.	1.5	3
38	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
39	The Effect of Seasonal Variation and Angle of Inclination on the Performances of Photovoltaic Panels in South Eastern Nigeria. <i>Research Journal of Applied Sciences, Engineering and Technology</i> , 2013, 5, 794-800.	0.1	2
40	Performance and thermo-sustainability analysis of non-hybrid organic Rankine cycles (ORCs) at varying heat source and evaporator conditions. <i>Australian Journal of Mechanical Engineering</i> , 0, , 1-14.	2.1	2
41	Techno-Economic Analysis and Neuro-Fuzzy Production Rate Prediction of Sorghum (Sorghum) Tj ETQq1 1 0.784314,rgBT /Oyerlock 10	1.7	2
42	Evaluation of Interfacial Friction Models in Stratified Flow: Gas-Liquid Two-Phase Flow. , 2019, , .		1
43	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
44	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
45	Off-wing fleet maintenance study of a CFM56-3B turbofan engine: the propulsive engine of Boeing 737-300 civil aircraft.. <i>Nigerian Journal of Technological Research</i> , 2018, 13, 72.	0.1	1
46	Cost performance analysis of small scale automotive maintenance firms in Calabar metropolis. <i>Cogent Engineering</i> , 2017, 4, 1369233.	2.2	0
47	Cycle parametric study on the performance of aeroderivative gas turbine models developed from a high bypass turbofan engine. <i>Cogent Engineering</i> , 2017, 4, 1368115.	2.2	0
48	Applications of small-scale, stand-alone wind energy conversion systems in rural Cross River State, Nigeria. <i>African Journal of Science, Technology, Innovation and Development</i> , 2018, 10, 539-550.	1.6	0
49	Improved Markov stable state simulation for maintenance planning. <i>Journal of Quality in Maintenance Engineering</i> , 2019, 25, 199-212.	1.7	0
50	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
51	Parametric Optimization of Improved Cassava Attrition Peeling Machine Using RSM Based Desirability Function. <i>International Review of Mechanical Engineering</i> , 2018, 12, 823.	0.2	0
52	Combined cycle performance evaluation of a simple and adapted aeroderivative gas turbines. <i>Nigerian Journal of Technological Research</i> , 2018, 13, 39.	0.1	0