

Eric Chekwube Okonkwo

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,387
citations

394286

19
h-index

345118

36
g-index

37
all docs

37
docs citations

37
times ranked

816
citing authors

#	ARTICLE	IF	CITATIONS
1	An updated review of nanofluids in various heat transfer devices. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2817-2872.	2.0	187
2	A review of cleaner alternative fuels for maritime transportation. <i>Energy Reports</i> , 2021, 7, 1962-1985.	2.5	136
3	An experimental investigation into the effect of particle mixture ratio on specific heat capacity and dynamic viscosity of Al ₂ O ₃ -ZnO hybrid nanofluids. <i>Powder Technology</i> , 2020, 363, 699-716.	2.1	127
4	Thermal performance analysis of a parabolic trough collector using water-based green-synthesized nanofluids. <i>Solar Energy</i> , 2018, 170, 658-670.	2.9	72
5	Comparison of experimental and theoretical methods of obtaining the thermal properties of alumina/iron mono and hybrid nanofluids. <i>Journal of Molecular Liquids</i> , 2019, 292, 111377.	2.3	72
6	Thermodynamic evaluation and optimization of a flat plate collector operating with alumina and iron mono and hybrid nanofluids. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 37, 100636.	1.7	65
7	Optimal Sizing and Techno-Economic Analysis of Hybrid Renewable Energy Systems – A Case Study of a Photovoltaic/Wind/Battery/Diesel System in Fanisau, Northern Nigeria. <i>Processes</i> , 2020, 8, 1381.	1.3	62
8	Nanofluids in Solar Thermal Collectors: Review and Limitations. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	1.0	60
9	Sustainable hydrogen roadmap: A holistic review and decision-making methodology for production, utilisation and exportation using Qatar as a case study. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35525-35549.	3.8	60
10	Numerical Analysis of Heat Transfer Enhancement in a Parabolic Trough Collector Based on Geometry Modifications and Working Fluid Usage. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2018, 140, .	1.1	54
11	Effect of hybrid nanofluids mixture ratio on the performance of a photovoltaic thermal collector. <i>International Journal of Energy Research</i> , 2020, 44, 9064-9081.	2.2	47
12	Thermo-environ study of a concentrated photovoltaic thermal system integrated with Kalina cycle for multigeneration and hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26716-26732.	3.8	42
13	An intelligent approach to predicting the effect of nanoparticle mixture ratio, concentration and temperature on thermal conductivity of hybrid nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 671-688.	2.0	41
14	A critical review of specific heat capacity of hybrid nanofluids for thermal energy applications. <i>Journal of Molecular Liquids</i> , 2021, 340, 116890.	2.3	38
15	A neural network-based predictive model for the thermal conductivity of hybrid nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2020, 119, 104930.	2.9	37
16	Grid integration of renewable energy in Qatar: Potentials and limitations. <i>Energy</i> , 2021, 235, 121310.	4.5	31
17	Effects of synthetic oil nanofluids and absorber geometries on the exergetic performance of the parabolic trough collector. <i>International Journal of Energy Research</i> , 2018, 42, 3559-3574.	2.2	30
18	Entropy Generation Minimization in a Parabolic Trough Collector Operating With SiO ₂ -Water Nanofluids Using the Genetic Algorithm and Artificial Neural Network. <i>Journal of Thermal Science and Engineering Applications</i> , 2020, 12, .	0.8	23

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19	Second-Law Analysis and Exergoeconomics Optimization of a Solar Tower-Driven Combined-Cycle Power Plant Using Supercritical CO ₂ . <i>Journal of Energy Engineering - ASCE</i> , 2018, 144, .	1.0	20
20	Comparative Study of Heat Transfer Enhancement in Parabolic Trough Collector Based on Modified Absorber Geometry. <i>Journal of Energy Engineering - ASCE</i> , 2019, 145, .	1.0	20
21	Towards a sustainable and cleaner environment in China: Dynamic analysis of vehicle-to-grid, batteries and hydro storage for optimal RE integration. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 42, 100872.	1.7	17
22	Thermodynamic analysis of energy storage supported multigeneration system. <i>Energy Storage</i> , 2019, 1, e33.	2.3	15
23	Optimal Analysis of Entropy Generation and Heat Transfer in Parabolic Trough Collector Using Green-Synthesized TiO ₂ /Water Nanofluids. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2019, 141, .	1.1	15
24	Integration of wind turbine with heliostat based CSP/CPVT system for hydrogen production and polygeneration: A thermodynamic comparison. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3316-3345.	3.8	15
25	A nanomaterial integrated technology approach to enhance the energy-water-food nexus. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111118.	8.2	14
26	Olive Leaf-Synthesized Nanofluids for Solar Parabolic Trough Collector- Thermal Performance Evaluation. <i>Journal of Thermal Science and Engineering Applications</i> , 2019, 11, .	0.8	12
27	A new wind power model using the lightning search algorithm. , 2016, , .		11
28	Stability and thermophysical properties test of carbide-derived carbon thermal fluid; a comparison between functionalized and emulsified suspensions. <i>Powder Technology</i> , 2021, 377, 415-428.	2.1	11
29	Energy, Exergy, and Economic Investigation of the Effect of Nanoparticle Mixture Ratios on the Thermal Performance of Flat Plate Collectors Using Al ₂ O ₃ -ZnO Hybrid Nanofluid. <i>Journal of Energy Engineering - ASCE</i> , 2021, 147, .	1.0	10
30	Estimation of thermophysical property of hybrid nanofluids for solar Thermal applications: Implementation of novel Optimizable Gaussian Process regression (O-GPR) approach for Viscosity prediction. <i>Neural Computing and Applications</i> , 2022, 34, 11233-11254.	3.2	9
31	Energy, exergy, exergoeconomic, and exergoenvironmental study of a parabolic trough collector using a converging-diverging receiver tube. <i>International Journal of Exergy</i> , 2019, 29, 131.	0.2	8
32	Parametric investigation of a chilled water district cooling unit using mono and hybrid nanofluids. <i>Scientific Reports</i> , 2021, 11, 19227.	1.6	7
33	Thermal Performance Optimization of a Parabolic Trough Collector Operating With Various Working Fluids Using Copper Nanoparticles. <i>Journal of Thermal Science and Engineering Applications</i> , 2021, 13, .	0.8	6
34	The economic viability of the utilisation of biogas as an alternative source of energy in rural parts of Nigeria. <i>International Journal of Global Energy Issues</i> , 2018, 41, 205.	0.2	5
35	Thermodynamic analysis of gravity assisted solar-powered reverse osmosis unit for greenhouses situated in a depleted zone. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100990.	2.8	5
36	Energy, exergy, exergoeconomic, and exergoenvironmental study of a parabolic trough collector using a converging-diverging receiver tube. <i>International Journal of Exergy</i> , 2019, 29, 131.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Heat Transfer Analysis of Cu-Water Nanofluid in a District Cooling Chilled Water Loop. Journal of Thermal Science and Engineering Applications, 2022, 14, .	0.8	1