

# Eric Chekwube Okonkwo

## List of Publications by Citations

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**Version:** 2024-04-27

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35  
papers

672  
citations

15  
h-index

25  
g-index

37  
ext. papers

996  
ext. citations

4.2  
avg, IF

5.27  
L-index

#	Paper	IF	Citations
35	An experimental investigation into the effect of particle mixture ratio on specific heat capacity and dynamic viscosity of Al <sub>2</sub> O <sub>3</sub> -ZnO hybrid nanofluids. <i>Powder Technology</i> , <b>2020</b> , 363, 699-716	5.2	81
34	An updated review of nanofluids in various heat transfer devices. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 2817-2872	4.1	76
33	Thermal performance analysis of a parabolic trough collector using water-based green-synthesized nanofluids. <i>Solar Energy</i> , <b>2018</b> , 170, 658-670	6.8	51
32	Comparison of experimental and theoretical methods of obtaining the thermal properties of alumina/iron mono and hybrid nanofluids. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 292, 111377	6	45
31	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> , <b>2018</b> , 140,	2.3	39
30	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> , <b>2020</b> , 37, 100636	4.7	38
29	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> , <b>2021</b> , 144, 671-688	4.1	31
28	A review of cleaner alternative fuels for maritime transportation. <i>Energy Reports</i> , <b>2021</b> , 7, 1962-1985	4.6	28
27	Nanofluids in Solar Thermal Collectors: Review and Limitations. <i>International Journal of Thermophysics</i> , <b>2020</b> , 41, 1	2.1	27
26	Effects of synthetic oil nanofluids and absorber geometries on the exergetic performance of the parabolic trough collector. <i>International Journal of Energy Research</i> , <b>2018</b> , 42, 3559-3574	4.5	25
25	Effect of hybrid nanofluids mixture ratio on the performance of a photovoltaic thermal collector. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 9064-9081	4.5	22
24	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> , <b>2020</b> , 8, 1381	2.9	18
23	A neural network-based predictive model for the thermal conductivity of hybrid nanofluids. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 119, 104930	5.8	18
22	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> , <b>2020</b> , 45, 26716-26732	6.7	17
21	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> , <b>2021</b> ,	6.7	16
20	Second-Law Analysis and Exergoeconomics Optimization of a Solar Tower Driven Combined-Cycle Power Plant Using Supercritical CO <sub>2</sub> . <i>Journal of Energy Engineering - ASCE</i> , <b>2018</b> , 144, 04018021	1.7	15
19	Comparative Study of Heat Transfer Enhancement in Parabolic Trough Collector Based on Modified Absorber Geometry. <i>Journal of Energy Engineering - ASCE</i> , <b>2019</b> , 145, 04019007	1.7	14

18	Entropy Generation Minimization in a Parabolic Trough Collector Operating With SiO <sub>2</sub> /Water Nanofluids Using the Genetic Algorithm and Artificial Neural Network. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2020</b> , 12,	1.9	12
17	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> , <b>2020</b> , 42, 100872	4.7	11
16	Thermodynamic analysis of energy storage supported multigeneration system. <i>Energy Storage</i> , <b>2019</b> , 1, e33	2.8	10
15	Olive Leaf-Synthesized Nanofluids for Solar Parabolic Trough Collector Thermal Performance Evaluation. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2019</b> , 11,	1.9	10
14	A new wind power model using the lightning search algorithm <b>2016</b> ,		9
13	A critical review of specific heat capacity of hybrid nanofluids for thermal energy applications. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 340, 116890	6	9
12	Optimal Analysis of Entropy Generation and Heat Transfer in Parabolic Trough Collector Using Green-Synthesized TiO <sub>2</sub> /Water Nanofluids. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2019</b> , 141,	2.3	7
11	Energy, exergy, exergoeconomic, and exergoenvironmental study of a parabolic trough collector using a converging-diverging receiver tube. <i>International Journal of Exergy</i> , <b>2019</b> , 29, 131	1.2	6
10	Grid integration of renewable energy in Qatar: Potentials and limitations. <i>Energy</i> , <b>2021</b> , 235, 121310	7.9	6
9	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> , <b>2020</b> ,	6.7	5
8	A nanomaterial integrated technology approach to enhance the energy-water-food nexus. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 145, 111118	16.2	5
7	Energy, Exergy, and Economic Investigation of the Effect of Nanoparticle Mixture Ratios on the Thermal Performance of Flat Plate Collectors Using Al <sub>2</sub> O <sub>3</sub> /ZnO Hybrid Nanofluid. <i>Journal of Energy Engineering - ASCE</i> , <b>2021</b> , 147, 04020083	1.7	5
6	Stability and thermophysical properties test of carbide-derived carbon thermal fluid; a comparison between functionalized and emulsified suspensions. <i>Powder Technology</i> , <b>2021</b> , 377, 415-428	5.2	4
5	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> , <b>2018</b> , 41, 205	0.3	4
4	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> , <b>2021</b> , 13,	1.9	3
3	Parametric investigation of a chilled water district cooling unit using mono and hybrid nanofluids. <i>Scientific Reports</i> , <b>2021</b> , 11, 19227	4.9	2
2	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> , <b>2022</b> , 1-22	4.8	2
1	Thermodynamic analysis of gravity assisted solar-powered reverse osmosis unit for greenhouses situated in a depleted zone. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 25, 100990	5.6	1

