Guillermo Valencia Ochoa

List of Publications by Year
in descending order

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47 papers	718 citations	516215 16 h-index	580395 25 g-index
49 all docs	49 docs citations	49 times ranked	466 citing authors

#	Article	IF	Citations
1	Energy and Exergy Analysis of Different Exhaust Waste Heat Recovery Systems for Natural Gas Engine Based on ORC. Energies, 2019, 12, 2378.	1.6	56
2	Thermodynamic, exergo-economic and exergo-environmental analysis of hybrid geothermal-solar power plant based on ORC cycle using emergy concept. Heliyon, 2020, 6, e03758.	1.4	48
3	Research trends in proton exchange membrane fuel cells during 2008â€“2018: A bibliometric analysis. Heliyon, 2019, 5, e01724.	1.4	46
4	Exergy, Economic, and Life-Cycle Assessment of ORC System for Waste Heat Recovery in a Natural Gas Internal Combustion Engine. Resources, 2020, 9, 2.	1.6	46
5	Energy, Economic, and Environmental Evaluation of a Proposed Solar-Wind Power On-grid System Using HOMER ProÂ®: A Case Study in Colombia. Energies, 2020, 13, 1662.	1.6	34
6	Advance Exergo-Economic Analysis of a Waste Heat Recovery System Using ORC for a Bottoming Natural Gas Engine. Energies, 2020, 13, 267.	1.6	33
7	Multiobjective Optimization of a Plate Heat Exchanger in a Waste Heat Recovery Organic Rankine Cycle System for Natural Gas Engines. Entropy, 2019, 21, 655.	1.1	31
8	Economic and Exergo-Advance Analysis of a Waste Heat Recovery System Based on Regenerative Organic Rankine Cycle under Organic Fluids with Low Global Warming Potential. Energies, 2020, 13, 1317.	1.6	31
9	Thermoeconomic Analysis of Different Exhaust Waste-Heat Recovery Systems for Natural Gas Engine Based on ORC. Applied Sciences (Switzerland), 2019, 9, 4017.	1.3	28
10	Thermoeconomic Optimization with PSO Algorithm of Waste Heat Recovery Systems Based on Organic Rankine Cycle System for a Natural Gas Engine. Energies, 2019, 12, 4165.	1.6	28
11	A phenomenological base semi-physical thermodynamic model for the cylinder and exhaust manifold of a natural gas 2-megawatt four-stroke internal combustion engine. Heliyon, 2019, 5, e02700.	1.4	25
12	Thermo-Economic Assessment of a Gas Microturbine-Absorption Chiller Trigeneration System under Different Compressor Inlet Air Temperatures. Energies, 2019, 12, 4643.	1.6	24
13	Study of the Piston Secondary Movement on the Tribological Performance of a Single Cylinder Low-Displacement Diesel Engine. Lubricants, 2020, 8, 97.	1.2	24
14	Economic and Environmental Multiobjective Optimization of a Windâ€“Solarâ€“Fuel Cell Hybrid Energy System in the Colombian Caribbean Region. Energies, 2019, 12, 2119.	1.6	23
15	Carbon footprint analysis and advanced exergo-environmental modeling of a waste heat recovery system based on a recuperative organic Rankine cycle. Journal of Cleaner Production, 2020, 274, 122838.	4.6	22
16	Thermoeconomic Modelling and Parametric Study of a Simple ORC for the Recovery of Waste Heat in a 2 MW Gas Engine under Different Working Fluids. Applied Sciences (Switzerland), 2019, 9, 4526.	1.3	18
17	A comparative energy and exergy optimization of a supercritical-CO2 Brayton cycle and Organic Rankine Cycle combined system using swarm intelligence algorithms. Heliyon, 2020, 6, e04136.	1.4	16
18	RESEARCH EVOLUTION ON RENEWABLE ENERGIES RESOURCES FROM 2007 TO 2017: A COMPARATIVE STUDY ON SOLAR, GEOTHERMAL, WIND AND BIOMASS ENERGY. International Journal of Energy Economics and Policy, 2019, 9, 242-253.	0.5	15

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19	A comparative study of the energy, exergetic and thermo-economic performance of a novelty combined Brayton S-CO2-ORC configurations as bottoming cycles. Heliyon, 2020, 6, e04459.	1.4	14
20	Thermodynamic, Exergy and Environmental Impact Assessment of S-CO2 Brayton Cycle Coupled with ORC as Bottoming Cycle. Energies, 2020, 13, 2259.	1.6	14
21	Regenerative Organic Rankine Cycle as Bottoming Cycle of an Industrial Gas Engine: Traditional and Advanced Exergetic Analysis. Applied Sciences (Switzerland), 2020, 10, 4411.	1.3	13
22	Anemia como factor pronÃ³stico en pacientes con cÃ¡ncer. Revista Peruana De Medicina De Experimental Y Salud Publica, 2018, 35, 250.	0.1	13
23	Combustion and Performance Study of Low-Displacement Compression Ignition Engines Operating with Dieselâ€“Biodiesel Blends. Applied Sciences (Switzerland), 2020, 10, 907.	1.3	13
24	Data set on wind speed, wind direction and wind probability distributions in Puerto Bolivar - Colombia. Data in Brief, 2019, 27, 104753.	0.5	10
25	Effect of the Geometric Profile of Top Ring on the Tribological Characteristics of a Low-Displacement Diesel Engine. Lubricants, 2020, 8, 83.	1.2	10
26	Energy, exergy, and environmental assessment of a small-scale solar organic Rankine cycle using different organic fluids. Heliyon, 2021, 7, e07947.	1.4	10
27	Efficiency Optimization Study of a Centrifugal Pump for Industrial Dredging Applications Using CFD. International Review on Modelling and Simulations, 2019, 12, 245.	0.2	9
28	Hybrid PV and wind grid-connected renewable energy system to reduce the gas emission and operation cost. Contemporary Engineering Sciences, 0, 10, 1269-1278.	0.2	7
29	Wind Speed Prediction Based on Univariate ARIMA and OLS on the Colombian Caribbean Coast. Journal of Engineering Science and Technology Review, 2020, 13, 200-205.	0.2	7
30	Development of a new educational package based on e-learning to study engineering thermodynamics process: combustion, energy and entropy analysis. Heliyon, 2020, 6, e04269.	1.4	6
31	Reynolds Averaged Navierâ€“Stokes Simulations of the Airflow in a Centrifugal Fan Using OpenFOAM. International Review on Modelling and Simulations, 2019, 12, 230.	0.2	6
32	Implementation of the ISO 50001 standard to sustainable energy and economic saving the industrial sector. Scientia Et Technica, 2020, 25, 261-268.	0.1	6
33	RESEARCH TREND ON NUCLEAR ENERGY FROM 2008 TO 2018: A BIBLIOMETRIC ANALYSIS. International Journal of Energy Economics and Policy, 2019, 9, 542-551.	0.5	4
34	A New Computational Tool for the Development of Advanced Exergy Analysis and LCA on Single Effect LiBrâ€“H2O Solar Absorption Refrigeration System. Lubricants, 2021, 9, 76.	1.2	4
35	Estudio estadÃstico de la velocidad y la direcciÃ³n del viento en los departamentos de AtlÃ¡ntico y BolÃvar en Colombia. Ingeniare, 2018, 26, 319-328.	0.1	3
36	Comparative Performance of a Hybrid Renewable Energy Generation System with Dynamic Load Demand. Applied Sciences (Switzerland), 2020, 10, 3093.	1.3	3

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37	A New Educational Thermodynamic Software to Promote Critical Thinking in Youth Engineering Students. Sustainability, 2020, 12, 110.	1.6	3
38	Fuzzy Adaptive Control Applied to a Hybrid Electric-Power Generation System (HEPGS). Indian Journal of Science and Technology, 2017, 10, 1-9.	0.5	2
39	Computer-Aided Simulation of the Volumetric Efficiency of a 2 MW Gas Engine. Computer Aided Chemical Engineering, 2018, 43, 259-264.	0.3	2
40	Combining Energy Management Indicators and Life Cycle Assessment Indicators to Promote Sustainability in a Paper Production Plant. Resources, 2020, 9, 75.	1.6	2
41	A world overview of organic Rankine cycle as waste heat recovery alternative. Respuestas, 2019, 24, 6-13.	0.2	2
42	Thermo-economic and sustainability assessment of two solar organic Rankine cycles in the United States. Sustainable Energy Technologies and Assessments, 2022, 50, 101758.	1.7	2
43	STUDY ON THE APPLICABILITY OF SUSTAINABLE DEVELOPMENT POLICIES IN ELECTRICITY GENERATION SYSTEMS IN COLOMBIA. International Journal of Energy Economics and Policy, 0, , 492-502.	0.5	1
44	Fault Detection using Principal Component Analysis and Mean Value Modeling in a 2 MW gas engine. Respuestas, 2020, 25, 15-24.	0.2	1
45	Operational data set of a 2 MW natural gas-fired generation engine at shutdown times. Data in Brief, 2020, 30, 105369.	0.5	0
46	State-Variable Feedback Control for Micro Gas Turbine Applied to Combined Heat and Power Systems: a Case Study. International Review of Mechanical Engineering, 2019, 13, 412.	0.1	0
47	Hydraulic Performance Prediction Methodology in Regenerative Pumps Through CFD Analysis. International Journal on Energy Conversion, 2019, 7, 253.	0.5	0