

# Guillermo Valencia Ochoa

## List of Publications by Year in descending order

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47  
papers

718  
citations

516215  
16  
h-index

580395  
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g-index

49  
all docs

49  
docs citations

49  
times ranked

466  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermo-economic and sustainability assessment of two solar organic Rankine cycles in the United States. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 50, 101758.	1.7	2
2	A New Computational Tool for the Development of Advanced Exergy Analysis and LCA on Single Effect LiBr-H <sub>2</sub> O Solar Absorption Refrigeration System. <i>Lubricants</i> , 2021, 9, 76.	1.2	4
3	Energy, exergy, and environmental assessment of a small-scale solar organic Rankine cycle using different organic fluids. <i>Heliyon</i> , 2021, 7, e07947.	1.4	10
4	A comparative study of the energy, exergetic and thermo-economic performance of a novelty combined Brayton S-CO <sub>2</sub> -ORC configurations as bottoming cycles. <i>Heliyon</i> , 2020, 6, e04459.	1.4	14
5	Carbon footprint analysis and advanced exergo-environmental modeling of a waste heat recovery system based on a recuperative organic Rankine cycle. <i>Journal of Cleaner Production</i> , 2020, 274, 122838.	4.6	22
6	Regenerative Organic Rankine Cycle as Bottoming Cycle of an Industrial Gas Engine: Traditional and Advanced Exergetic Analysis. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4411.	1.3	13
7	A comparative energy and exergy optimization of a supercritical-CO <sub>2</sub> Brayton cycle and Organic Rankine Cycle combined system using swarm intelligence algorithms. <i>Heliyon</i> , 2020, 6, e04136.	1.4	16
8	Development of a new educational package based on e-learning to study engineering thermodynamics process: combustion, energy and entropy analysis. <i>Heliyon</i> , 2020, 6, e04269.	1.4	6
9	Effect of the Geometric Profile of Top Ring on the Tribological Characteristics of a Low-Displacement Diesel Engine. <i>Lubricants</i> , 2020, 8, 83.	1.2	10
10	Study of the Piston Secondary Movement on the Tribological Performance of a Single Cylinder Low-Displacement Diesel Engine. <i>Lubricants</i> , 2020, 8, 97.	1.2	24
11	Operational data set of a 2 MW natural gas-fired generation engine at shutdown times. <i>Data in Brief</i> , 2020, 30, 105369.	0.5	0
12	Comparative Performance of a Hybrid Renewable Energy Generation System with Dynamic Load Demand. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3093.	1.3	3
13	Thermodynamic, Exergy and Environmental Impact Assessment of S-CO <sub>2</sub> Brayton Cycle Coupled with ORC as Bottoming Cycle. <i>Energies</i> , 2020, 13, 2259.	1.6	14
14	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. <i>Energies</i> , 2020, 13, 1317.	1.6	31
15	Exergy, Economic, and Life-Cycle Assessment of ORC System for Waste Heat Recovery in a Natural Gas Internal Combustion Engine. <i>Resources</i> , 2020, 9, 2.	1.6	46
16	Combining Energy Management Indicators and Life Cycle Assessment Indicators to Promote Sustainability in a Paper Production Plant. <i>Resources</i> , 2020, 9, 75.	1.6	2
17	A New Educational Thermodynamic Software to Promote Critical Thinking in Youth Engineering Students. <i>Sustainability</i> , 2020, 12, 110.	1.6	3
18	Thermodynamic, exergo-economic and exergo-environmental analysis of hybrid geothermal-solar power plant based on ORC cycle using exergy concept. <i>Heliyon</i> , 2020, 6, e03758.	1.4	48

#	ARTICLE	IF	CITATIONS
19	Energy, Economic, and Environmental Evaluation of a Proposed Solar-Wind Power On-grid System Using HOMER Pro®: A Case Study in Colombia. <i>Energies</i> , 2020, 13, 1662.	1.6	34
20	Wind Speed Prediction Based on Univariate ARIMA and OLS on the Colombian Caribbean Coast. <i>Journal of Engineering Science and Technology Review</i> , 2020, 13, 200-205.	0.2	7
21	Combustion and Performance Study of Low-Displacement Compression Ignition Engines Operating with Diesel/Biodiesel Blends. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 907.	1.3	13
22	Advance Exergo-Economic Analysis of a Waste Heat Recovery System Using ORC for a Bottoming Natural Gas Engine. <i>Energies</i> , 2020, 13, 267.	1.6	33
23	Implementation of the ISO 50001 standard to sustainable energy and economic saving the industrial sector. <i>Scientia Et Technica</i> , 2020, 25, 261-268.	0.1	6
24	Fault Detection using Principal Component Analysis and Mean Value Modeling in a 2 MW gas engine. <i>Respuestas</i> , 2020, 25, 15-24.	0.2	1
25	Energy and Exergy Analysis of Different Exhaust Waste Heat Recovery Systems for Natural Gas Engine Based on ORC. <i>Energies</i> , 2019, 12, 2378.	1.6	56
26	Multiobjective Optimization of a Plate Heat Exchanger in a Waste Heat Recovery Organic Rankine Cycle System for Natural Gas Engines. <i>Entropy</i> , 2019, 21, 655.	1.1	31
27	RESEARCH TREND ON NUCLEAR ENERGY FROM 2008 TO 2018: A BIBLIOMETRIC ANALYSIS. <i>International Journal of Energy Economics and Policy</i> , 2019, 9, 542-551.	0.5	4
28	Data set on wind speed, wind direction and wind probability distributions in Puerto Bolivar - Colombia. <i>Data in Brief</i> , 2019, 27, 104753.	0.5	10
29	A phenomenological base semi-physical thermodynamic model for the cylinder and exhaust manifold of a natural gas 2-megawatt four-stroke internal combustion engine. <i>Heliyon</i> , 2019, 5, e02700.	1.4	25
30	Thermoeconomic Analysis of Different Exhaust Waste-Heat Recovery Systems for Natural Gas Engine Based on ORC. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4017.	1.3	28
31	Research trends in proton exchange membrane fuel cells during 2008–2018: A bibliometric analysis. <i>Heliyon</i> , 2019, 5, e01724.	1.4	46
32	Economic and Environmental Multiobjective Optimization of a Wind–Solar–Fuel Cell Hybrid Energy System in the Colombian Caribbean Region. <i>Energies</i> , 2019, 12, 2119.	1.6	23
33	RESEARCH EVOLUTION ON RENEWABLE ENERGIES RESOURCES FROM 2007 TO 2017: A COMPARATIVE STUDY ON SOLAR, GEOTHERMAL, WIND AND BIOMASS ENERGY. <i>International Journal of Energy Economics and Policy</i> , 2019, 9, 242-253.	0.5	15
34	Thermo-Economic Assessment of a Gas Microturbine-Absorption Chiller Trigeneration System under Different Compressor Inlet Air Temperatures. <i>Energies</i> , 2019, 12, 4643.	1.6	24
35	Thermoeconomic Optimization with PSO Algorithm of Waste Heat Recovery Systems Based on Organic Rankine Cycle System for a Natural Gas Engine. <i>Energies</i> , 2019, 12, 4165.	1.6	28
36	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. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4526.	1.3	18

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37	Reynolds Averaged Navier–Stokes Simulations of the Airflow in a Centrifugal Fan Using OpenFOAM. International Review on Modelling and Simulations, 2019, 12, 230.	0.2	6
38	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
39	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
40	A world overview of organic Rankine cycle as waste heat recovery alternative. Respuestas, 2019, 24, 6-13.	0.2	2
41	Hydraulic Performance Prediction Methodology in Regenerative Pumps Through CFD Analysis. International Journal on Energy Conversion, 2019, 7, 253.	0.5	0
42	Estudio estadístico de la velocidad y la dirección del viento en los departamentos de Atlántico y Bolívar en Colombia. Ingeniare, 2018, 26, 319-328.	0.1	3
43	Computer-Aided Simulation of the Volumetric Efficiency of a 2 MW Gas Engine. Computer Aided Chemical Engineering, 2018, 43, 259-264.	0.3	2
44	Anemia como factor pronóstico en pacientes con cáncer. Revista Peruana De Medicina De Experimental Y Salud Publica, 2018, 35, 250.	0.1	13
45	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
46	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
47	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