

# Alexis Sagastume Gutiérrez

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,137  
citations

471509

17  
h-index

395702

33  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment criteria of the feasibility of replacement standard efficiency electric motors with high-efficiency motors. <i>Energy</i> , 2022, 239, 121877.	8.8	10
2	Technical, environmental, and economic evaluation of a solar/gas driven absorption chiller for shopping malls in the Caribbean region of Colombia. <i>Case Studies in Thermal Engineering</i> , 2022, 30, 101743.	5.7	9
3	Potential of livestock manure and agricultural wastes to mitigate the use of firewood for cooking in rural areas. The case of the department of Cordoba (Colombia). <i>Development Engineering</i> , 2022, 7, 100093.	1.8	5
4	The inequality of electricity consumption in Colombia. Projections and implications. <i>Energy</i> , 2022, 249, 123711.	8.8	7
5	THE AVAILABLE WASTE-TO-ENERGY POTENTIAL FROM AGRICULTURAL WASTES IN THE DEPARTMENT OF CÃ“RDOBA, COLOMBIA. <i>International Journal of Energy Economics and Policy</i> , 2021, 11, 44-50.	1.2	1
6	The temperature gradient of cereals as an optimization parameter of the milling process in hammermills. <i>Journal of Cleaner Production</i> , 2021, 297, 126685.	9.3	2
7	Modeling Wind Speed with a Long-Term Horizon and High-Time Interval with a Hybrid Fourier-Neural Network Model. <i>Mathematical Modelling of Engineering Problems</i> , 2021, 8, 431-440.	0.5	0
8	CFD modelling of the ammonia vapour absorption in a tubular bubble absorber with NH <sub>3</sub> /LiNO <sub>3</sub> . <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101311.	5.7	6
9	Alternatives of municipal solid wastes to energy for sustainable development. The case of Barranquilla (Colombia). <i>International Journal of Sustainable Engineering</i> , 2021, 14, 1809-1825.	3.5	6
10	Experimental study of the potential for thermal energy recovery with thermoelectric devices in low displacement diesel engines. <i>Heliyon</i> , 2021, 7, e08273.	3.2	3
11	Data supporting the forecast of electricity generation capacity from non-conventional renewable energy sources in Colombia. <i>Data in Brief</i> , 2020, 28, 104949.	1.0	5
12	Energy management of compressed air systems. Assessing the production and use of compressed air in industry. <i>Energy</i> , 2020, 213, 118662.	8.8	18
13	Causal Analysis of the Pinion Teeth Failure in a Limestone Reclaimer. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 844, 012027.	0.6	0
14	Data to support the assessment of the energy efficiency estimation methods on induction motors considering real-time monitoring. <i>Data in Brief</i> , 2020, 30, 105512.	1.0	1
15	Data supporting the evaluation of the energy recovery potential of thermoelectric generators in diesel engines. <i>Data in Brief</i> , 2020, 28, 105075.	1.0	8
16	Assessing the biofuel "transport nexus. The case of the sugar industry in Cuba. <i>Journal of Cleaner Production</i> , 2020, 267, 122144.	9.3	5
17	The energy potential of agriculture, agroindustrial, livestock, and slaughterhouse biomass wastes through direct combustion and anaerobic digestion. The case of Colombia. <i>Journal of Cleaner Production</i> , 2020, 269, 122317.	9.3	59
18	Evaluation of the energy recovery potential of thermoelectric generators in diesel engines. <i>Journal of Cleaner Production</i> , 2019, 241, 118412.	9.3	51

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19	Data supporting the improvement of forecasting and control of electricity consumption in hotels. Data in Brief, 2019, 25, 104147.	1.0	3
20	FACTORS AFFECTING THE ELECTRICITY CONSUMPTION AND PRODUCTIVITY OF THE LEAD ACID BATTERY FORMATION PROCESS. THE CASE OF A BATTERY PLANT IN COLOMBIA. International Journal of Energy Economics and Policy, 2019, 9, 103-112.	1.2	4
21	Assessment of the energy efficiency estimation methods on induction motors considering real-time monitoring. Measurement: Journal of the International Measurement Confederation, 2019, 136, 237-247.	5.0	18
22	Energy management in the formation of light, starter, and ignition lead-acid batteries. Energy Efficiency, 2019, 12, 1219-1236.	2.8	4
23	Energy planning and management during battery manufacturing. Gestão & Produão, 2019, 26, .	0.5	3
24	Energy Planning Implementation in Hotels. Case Study in a Hotel in the City of Barranquilla-Colombia. Journal of Engineering Science and Technology Review, 2019, 12, 91-97.	0.4	1
25	The current potential of low-carbon economy and biomass-based electricity in Cuba. The case of sugarcane, energy cane and marabu (Dichrostachys cinerea) as biomass sources. Journal of Cleaner Production, 2018, 172, 2108-2122.	9.3	36
26	On the evolution of "Cleaner Production" as a concept and a practice. Journal of Cleaner Production, 2018, 172, 3323-3333.	9.3	189
27	Evaluaci3n de la Climatizaci3n en Locales Comerciales, Integrando T3cnicas de Termograf3a, Simulaci3n y Modelado por Elementos Finitos. Informacion Tecnol3gica (discontinued), 2018, 29, 179-188.	0.3	6
28	Electricity management in the production of lead-acid batteries: The industrial case of a production plant in Colombia. Journal of Cleaner Production, 2018, 198, 1443-1458.	9.3	24
29	Data supporting the assessment of biomass based electricity and reduced GHG emissions in Cuba. Data in Brief, 2018, 17, 716-723.	1.0	4
30	Municipal Energy Management Model for Cuban First Level Municipalities. Journal of Engineering Science and Technology Review, 2018, 11, 1-6.	0.4	4
31	University"industry interaction on cleaner production. The case of the Cleaner Production Center at the University of Cienfuegos in Cuba, a country in transition. Journal of Cleaner Production, 2017, 142, 63-68.	9.3	12
32	Improved selection of the functional unit in environmental impact assessment of cement. Journal of Cleaner Production, 2017, 168, 463-473.	9.3	42
33	The Biomass Based Electricity Generation Potential of the Province of Cienfuegos, Cuba. Waste and Biomass Valorization, 2017, 8, 2075-2085.	3.4	19
34	Tools to improve forecasting and control of the electricity consumption in hotels. Journal of Cleaner Production, 2016, 137, 803-812.	9.3	25
35	Environmental assessment of pig production in Cienfuegos, Cuba: alternatives for manure management. Journal of Cleaner Production, 2016, 112, 2518-2528.	9.3	27
36	Method to Calculatethe Stress in Complex Welded Joints. International Journal of Engineering and Technology, 2016, 8, 3005-3013.	0.1	0

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37	Bridging universities and industry through cleaner production activities. Experiences from the Cleaner Production Center at the University of Cienfuegos, Cuba. Journal of Cleaner Production, 2015, 108, 873-882.	9.3	17
38	Preliminary Assessment Of Potential Water Savings Actions By Cement Cienfuegos SA PML. ITEGAM- Journal of Engineering and Technology for Industrial Applications (ITEGAM-JETIA), 2015, 1, .	0.2	0
39	Limestone calcination optimization of vertical container oven. ITEGAM- Journal of Engineering and Technology for Industrial Applications (ITEGAM-JETIA), 2015, 1, .	0.2	0
40	Comparative study of the urban quality of life in Cuban first-level cities from an objective dimension. Environment, Development and Sustainability, 2014, 16, 195-215.	5.0	12
41	Improving the environmental performance of an earthwork project using cleaner production strategies. Journal of Cleaner Production, 2013, 47, 368-376.	9.3	64
42	Energy and exergy assessments of a lime shaft kiln. Applied Thermal Engineering, 2013, 51, 273-280.	6.0	52
43	An approach to sustainable development: the case of Cuba. Environment, Development and Sustainability, 2012, 14, 573-591.	5.0	30
44	Evaluation of the environmental performance of lime production in Cuba. Journal of Cleaner Production, 2012, 31, 126-136.	9.3	63
45	Exergy-based indicators to evaluate the possibilities to reduce fuel consumption in lime production. Energy, 2011, 36, 2820-2827.	8.8	18
46	Residue from Sugarcane Juice Filtration (Filter Cake): Energy Use at the Sugar Factory. Waste and Biomass Valorization, 2010, 1, 407-413.	3.4	62
47	Cleaner production in a small lime factory by means of process control. Journal of Cleaner Production, 2010, 18, 1171-1176.	9.3	35
48	Tribological behavior of polyalphaolefin with the addition of nickel nanoparticles. Tribology International, 2010, 43, 2327-2332.	5.9	161