

Carlos Rubio-Maya

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

977
citations

430874

18
h-index

454955

30
g-index

39
all docs

39
docs citations

39
times ranked

973
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermo-economic analysis of a direct supercritical CO ₂ electric power generation system using geothermal heat. <i>Frontiers in Energy</i> , 2022, 16, 246-262.	2.3	4
2	Thermodynamic performance and economic feasibility of Kalina, Goswami and Organic Rankine Cycles coupled to a polygeneration plant using geothermal energy of low-grade temperature. <i>Energy Conversion and Management</i> , 2021, 243, 114362.	9.2	40
3	Advanced exergy and exergoeconomic analysis for a polygeneration plant operating in geothermal cascade. <i>Energy Conversion and Management</i> , 2020, 203, 112227.	9.2	45
4	Numerical analysis of separation performance of an axial-flow cyclone for supercritical CO ₂ -water separation in CO ₂ plume geothermal systems. <i>Separation and Purification Technology</i> , 2020, 248, 116999.	7.9	11
5	Thermodynamic analysis and optimization of supercritical carbon dioxide Brayton cycles for use with low-grade geothermal heat sources. <i>Energy Conversion and Management</i> , 2020, 216, 112978.	9.2	50
6	Analysis of the Design and Operation of a Hybrid Trigeneration-Photovoltaic System Installed in a Shopping Mall. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	2
7	Theoretical modeling and experimental validation of a small capacity diffusion-absorption refrigerator. <i>International Journal of Refrigeration</i> , 2019, 104, 302-310.	3.4	7
8	Working fluid selection for organic Rankine cycle power generation using hot produced supercritical CO ₂ from a geothermal reservoir. <i>Applied Thermal Engineering</i> , 2019, 149, 1287-1304.	6.0	85
9	Análisis exergético convencional aplicado a una planta de poligeneración operando en cascada geotérmica. <i>Ingeniería Investigación Y Tecnología</i> , 2019, 20, 1-10.	0.1	0
10	Economic analysis of the energy consumption of a vending machine in a Mexican university building. <i>Electrical Engineering</i> , 2018, 100, 1509-1515.	2.0	1
11	Fully coupled wellbore-reservoir simulation of supercritical CO ₂ injection from fossil fuel power plant for heat mining from geothermal reservoirs. <i>Journal of CO₂ Utilization</i> , 2018, 27, 480-492.	6.8	21
12	Energetic and exergetic performance comparison of different polygeneration arrangements utilizing geothermal energy in cascade. <i>Energy Conversion and Management</i> , 2018, 168, 252-269.	9.2	43
13	Numerical study of the drift and evaporation of water droplets cooled down by a forced stream of air. <i>Applied Thermal Engineering</i> , 2018, 142, 292-302.	6.0	20
14	Energy and exergy analysis of R1234yf as drop-in replacement for R134a in a domestic refrigeration system. <i>Energy</i> , 2017, 132, 116-125.	8.8	45
15	Analysis of a sequential production of electricity, ice and drying of agricultural products by cascading geothermal energy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18092-18102.	7.1	21
16	Use of Supercritical CO ₂ Heated With Geothermal Energy for Power Production Through Direct Expansion and Heat Supply to an ORC Cycle. , 2017, , .		0
17	Modelling and Validation of a Hybrid Trigeneration/Photovoltaic System Installed in a Shopping Mall Complex. , 2017, , .		1
18	Feasibility Analysis of a Hybrid Photovoltaic/Thermal Cogeneration System for Domestic Applications. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	Numerical Analysis of Geothermal Heat Exchangers to be Implemented in a Geothermal-Solar Hybrid Power Plant for Electricity Production in Mexico. , 2016, , .		0
20	Techno-economic assessment for the integration into a multi-product plant based on cascade utilization of geothermal energy. Applied Thermal Engineering, 2016, 108, 84-92.	6.0	22
21	Thermodynamic Analysis of Simultaneous Heat and Mass Transfer Systems. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	9
22	Using Onion Diagram for the Reduction of Water and Energy in Cooling Systems. IEEE Latin America Transactions, 2016, 14, 1829-1834.	1.6	0
23	Integrated design and control of multigeneration systems for building complexes. Energy, 2016, 116, 1403-1416.	8.8	31
24	Heat mining assessment for geothermal reservoirs in Mexico using supercritical CO2 injection. Energy, 2016, 102, 148-160.	8.8	43
25	A Sensitivity Analysis for Effective Use of CO2 for Heat Mining in Geothermal Reservoirs. , 2015, , .		0
26	Analysis of Alternatives for a Multiproduct System Using Geothermal Energy Under Cascade Utilization Concept. , 2015, , .		1
27	Cascade utilization of low and medium enthalpy geothermal resources â A review. Renewable and Sustainable Energy Reviews, 2015, 52, 689-716.	16.4	89
28	Technical and economic study for the integration of parabolic trough collectors coupled to a binary cycle. , 2014, , .		2
29	Energetic analysis of a diffusionâabsorption system: A bubble pump under geometrical and operational conditions effects. Applied Thermal Engineering, 2014, 71, 1-10.	6.0	30
30	Optimization methodology assessment for the inlet velocity profile of a hydraulic turbine draft tube: part IIâperformance evaluation of draft tube model. Journal of Global Optimization, 2013, 55, 729-749.	1.8	10
31	Optimization methodology assessment for the inlet velocity profile of a hydraulic turbine draft tube: part Iâcomputer optimization techniques. Journal of Global Optimization, 2013, 55, 53-72.	1.8	19
32	Comparative study of transcritical vapor compression configurations using CO2 asÂrefrigeration mode base on simulation. Applied Thermal Engineering, 2013, 51, 1038-1046.	6.0	28
33	NLP model of a LiBrâH2O absorption refrigeration system for the minimization of the annual operating cost. Applied Thermal Engineering, 2012, 37, 10-18.	6.0	66
34	Assessment of Environmental Water Cost Through Physical Hydromomics. Water Resources Management, 2011, 25, 2931-2949.	3.9	4
35	Design optimization of a polygeneration plant fuelled by natural gas and renewable energy sources. Applied Energy, 2011, 88, 449-457.	10.1	146
36	Sequential optimization of a polygeneration plant. Energy Conversion and Management, 2011, 52, 2861-2869.	9.2	40

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37	Exergy cost of water supply and water treatment technologies. <i>Desalination and Water Treatment</i> , 2010, 24, 123-131.	1.0	18
38	Assessment of the world fresh water resources through energy requirements in desalination technologies. <i>Desalination and Water Treatment</i> , 2009, 10, 165-174.	1.0	7
39	Optimization of desalted water production in a poligeneration scheme for the tourist sector. <i>Desalination</i> , 2008, 223, 464-475.	8.2	16