

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	Design optimization of a polygeneration plant fuelled by natural gas and renewable energy sources. Applied Energy, 2011, 88, 449-457.	10.1	146
2	Cascade utilization of low and medium enthalpy geothermal resources â A review. Renewable and Sustainable Energy Reviews, 2015, 52, 689-716.	16.4	89
3	Working fluid selection for organic Rankine cycle power generation using hot produced supercritical CO2 from a geothermal reservoir. Applied Thermal Engineering, 2019, 149, 1287-1304.	6.0	85
4	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
5	Thermodynamic analysis and optimization of supercritical carbon dioxide Brayton cycles for use with low-grade geothermal heat sources. Energy Conversion and Management, 2020, 216, 112978.	9.2	50
6	Energy and exergy analysis of R1234yf as drop-in replacement for R134a in a domestic refrigeration system. Energy, 2017, 132, 116-125.	8.8	45
7	Advanced exergy and exergoeconomic analysis for a polygeneration plant operating in geothermal cascade. Energy Conversion and Management, 2020, 203, 112227.	9.2	45
8	Heat mining assessment for geothermal reservoirs in Mexico using supercritical CO2 injection. Energy, 2016, 102, 148-160.	8.8	43
9	Energetic and exergetic performance comparison of different polygeneration arrangements utilizing geothermal energy in cascade. Energy Conversion and Management, 2018, 168, 252-269.	9.2	43
10	Sequential optimization of a polygeneration plant. Energy Conversion and Management, 2011, 52, 2861-2869.	9.2	40
11	Thermodynamic performance and economic feasibility of Kalina, Goswami and Organic Rankine Cycles coupled to a polygeneration plant using geothermal energy of low-grade temperature. Energy Conversion and Management, 2021, 243, 114362.	9.2	40
12	Integrated design and control of multigeneration systems for building complexes. Energy, 2016, 116, 1403-1416.	8.8	31
13	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
14	Comparative study of transcritical vapor compression configurations using CO2 as refrigeration mode base on simulation. Applied Thermal Engineering, 2013, 51, 1038-1046.	6.0	28
15	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
16	Analysis of a sequential production of electricity, ice and drying of agricultural products by cascading geothermal energy. International Journal of Hydrogen Energy, 2017, 42, 18092-18102.	7.1	21
17	Fully coupled wellbore-reservoir simulation of supercritical CO2 injection from fossil fuel power plant for heat mining from geothermal reservoirs. Journal of CO2 Utilization, 2018, 27, 480-492.	6.8	21
18	Numerical study of the drift and evaporation of water droplets cooled down by a forced stream of air. Applied Thermal Engineering, 2018, 142, 292-302.	6.0	20

#	ARTICLE	IF	CITATIONS
19	Optimization methodology assessment for the inlet velocity profile of a hydraulic turbine draft tube: part I "computer optimization techniques. Journal of Global Optimization, 2013, 55, 53-72.	1.8	19
20	Exergy cost of water supply and water treatment technologies. Desalination and Water Treatment, 2010, 24, 123-131.	1.0	18
21	Optimization of desalted water production in a poligeneration scheme for the tourist sector. Desalination, 2008, 223, 464-475.	8.2	16
22	Numerical analysis of separation performance of an axial-flow cyclone for supercritical CO ₂ -water separation in CO ₂ plume geothermal systems. Separation and Purification Technology, 2020, 248, 116999.	7.9	11
23	Optimization methodology assessment for the inlet velocity profile of a hydraulic turbine draft tube: part II "performance evaluation of draft tube model. Journal of Global Optimization, 2013, 55, 729-749.	1.8	10
24	Thermodynamic Analysis of Simultaneous Heat and Mass Transfer Systems. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	9
25	Assessment of the world fresh water resources through energy requirements in desalination technologies. Desalination and Water Treatment, 2009, 10, 165-174.	1.0	7
26	Theoretical modeling and experimental validation of a small capacity diffusion-absorption refrigerator. International Journal of Refrigeration, 2019, 104, 302-310.	3.4	7
27	Assessment of Environmental Water Cost Through Physical Hydromomics. Water Resources Management, 2011, 25, 2931-2949.	3.9	4
28	Thermo-economic analysis of a direct supercritical CO ₂ electric power generation system using geothermal heat. Frontiers in Energy, 2022, 16, 246-262.	2.3	4
29	Technical and economic study for the integration of parabolic trough collectors coupled to a binary cycle. , 2014, , .		2
30	Analysis of the Design and Operation of a Hybrid Trigeneration-Photovoltaic System Installed in a Shopping Mall. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	2
31	Analysis of Alternatives for a Multiproduct System Using Geothermal Energy Under Cascade Utilization Concept. , 2015, , .		1
32	Modelling and Validation of a Hybrid Trigeneration/Photovoltaic System Installed in a Shopping Mall Complex. , 2017, , .		1
33	Economic analysis of the energy consumption of a vending machine in a Mexican university building. Electrical Engineering, 2018, 100, 1509-1515.	2.0	1
34	A Sensitivity Analysis for Effective Use of CO ₂ for Heat Mining in Geothermal Reservoirs. , 2015, , .		0
35	Feasibility Analysis of a Hybrid Photovoltaic/Thermal Cogeneration System for Domestic Applications. , 2016, , .		0
36	Numerical Analysis of Geothermal Heat Exchangers to be Implemented in a Geothermal-Solar Hybrid Power Plant for Electricity Production in Mexico. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Using Onion Diagram for the Reduction of Water and Energy in Cooling Systems. IEEE Latin America Transactions, 2016, 14, 1829-1834.	1.6	0
38	Use of Supercritical CO2 Heated With Geothermal Energy for Power Production Through Direct Expansion and Heat Supply to an ORC Cycle. , 2017, , .		0
39	Análisis exergético convencional aplicado a una planta de poligeneración operando en cascada geotérmica. Ingenieria Investigaci3n Y Tecnologa, 2019, 20, 1-10.	0.1	0