

# Rosenberg J Romero

## List of Publications by Year in descending order

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84  
papers

1,476  
citations

377584

21  
h-index

406436

35  
g-index

90  
all docs

90  
docs citations

90  
times ranked

918  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Analysis of a Latent Heat Storage Using Plate Heat Exchanger for Absorption System Conditions. <i>Processes</i> , 2022, 10, 815.	1.3	2
2	Analysis and Simulation of an Absorption Cooling System Using a Latent Heat Storage Tank and a Tempering Valve. <i>Energies</i> , 2021, 14, 1376.	1.6	5
3	Experimental Performance of a Membrane Desorber Operating under Simulated Warm Weather Condensation Temperatures. <i>Membranes</i> , 2021, 11, 474.	1.4	4
4	Feasibility Analysis of a Membrane Desorber Powered by Thermal Solar Energy for Absorption Cooling Systems. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1110.	1.3	7
5	Adsorbentes de origen vegetal y su aplicaci3n en la remoci3n amigable de colorantes presentes en agua. <i>Inventio</i> , 2020, 15, .	0.0	0
6	Parametric Identification Method for an Absorption Air Conditioning Parabolic Trough Collector Solar Plant. <i>International Journal of Basic and Applied Sciences</i> , 2020, 9, 01.	0.2	0
7	Optical Determination of the Effects by Thermal Treatment (TT) in Honey of <i>Apis mellifera</i> Bees. <i>Journal of Agricultural Chemistry and Environment</i> , 2020, 09, 37-47.	0.2	1
8	New Concentration Correlations of NaOH Aqueous Solutions for a Thermodynamic Process. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 5302-5311.	1.0	1
9	Life cycle assessment of a solar absorption air-conditioning system. <i>Journal of Cleaner Production</i> , 2019, 240, 118206.	4.6	36
10	Thermodynamic Analysis of a Half-Effect Absorption Cooling System Powered by a Low-Enthalpy Geothermal Source. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1220.	1.3	5
11	Using CFD and PIV to investigate rotating cage-related hydrodynamics for CO2 corrosion studies analyzing 2-, 4- and 8-coupons setups. <i>Anti-Corrosion Methods and Materials</i> , 2019, 66, 802-811.	0.6	1
12	Energy Model for Long-Term Scenarios in Power Sector under Energy Transition Laws. <i>Processes</i> , 2019, 7, 674.	1.3	2
13	Adsorbentes de origen vegetal y su aplicaci3n en la remoci3n amigable de colorantes presentes en agua. <i>Inventio</i> , 2019, 15, .	0.0	0
14	Optimization-heuristic of mechanical properties of acicular ferrite steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 721, 65-73.	2.6	14
15	Experimental assessment of double-absorption heat transformer operating with H2O/LiBr. <i>Applied Thermal Engineering</i> , 2018, 132, 432-440.	3.0	14
16	Novel intermittent absorption cooling system based on membrane separation process. <i>Applied Thermal Engineering</i> , 2018, 136, 718-729.	3.0	13
17	Integration of the Experimental Results of a Parabolic Trough Collector (PTC) Solar Plant to an Absorption Air-Conditioning System. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2163.	1.3	11
18	Corrosion behavior of AISI 316L stainless steel in a NaOH-H2O mixture. <i>International Journal of Electrochemical Science</i> , 2018, 13, 631-641.	0.5	8

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19	Hybrid Solar-Geothermal Energy Absorption Air-Conditioning System Operating with NaOH-H <sub>2</sub> O Las Tres VÃrgenes (Baja California Sur), â€œLa Reformaâ€•Case. Energies, 2018, 11, 1268.	1.6	10
20	Consequences of the National Energy Strategy in the Mexican Energy System: Analyzing Strategic Indicators with an Optimization Energy Model. Energies, 2018, 11, 2837.	1.6	4
21	A Theoretical-Experimental Comparison of an Improved Ammonia-Water Bubble Absorber by Means of a Helical Static Mixer. Energies, 2018, 11, 56.	1.6	5
22	Experimental barium chloride-ammonia cooling cycle study at low generation temperatures. Applied Thermal Engineering, 2018, 141, 751-761.	3.0	4
23	Dynamic Simulation of an Absorption Cooling System with Different Working Mixtures. Energies, 2018, 11, 259.	1.6	19
24	Feasibility analysis of a hot water solar system coupled to an absorption heat transformer. Applied Thermal Engineering, 2017, 114, 1176-1185.	3.0	7
25	Experimental assessment of a hydrophobic membrane-based desorber/condenser with H <sub>2</sub> O/LiBr mixture for absorption systems. Experimental Thermal and Fluid Science, 2017, 88, 145-159.	1.5	44
26	Predicted and experimental COP for heat transformer based on effectiveness process. Experimental Thermal and Fluid Science, 2017, 88, 490-503.	1.5	5
27	Life cycle assessment of geothermal power generation technologies: An updated review. Applied Thermal Engineering, 2017, 114, 1119-1136.	3.0	150
28	Air Conditioning Based on Hydroxides with Solar Driving for Low GHG Emissions. Green Energy and Technology, 2016, , 285-294.	0.4	0
29	Experimental evaluation of a membrane contactor unit used as a desorber/condenser with water/Carrol mixture for absorption heat transformer cycles. Experimental Thermal and Fluid Science, 2016, 76, 193-204.	1.5	13
30	Optimal design criterion for Heat Transformer operating with Water Carrol. , 2016, , .		0
31	A review of absorption heat transformers. Applied Thermal Engineering, 2015, 91, 654-670.	3.0	89
32	Experimental thermodynamic evaluation for a single stage heat transformer prototype build with commercial PHEs. Applied Thermal Engineering, 2015, 75, 1262-1270.	3.0	124
33	Experimental heat transformer monitoring based on linear modelling and statistical control process. Applied Thermal Engineering, 2015, 75, 1271-1286.	3.0	7
34	Experimental assessment of an absorption heat transformer prototype at different temperature levels into generator and into evaporator operating with water/Carrol mixture. Experimental Thermal and Fluid Science, 2015, 60, 275-283.	1.5	12
35	Performance of Different Experimental Absorber Designs in Absorption Heat Pump Cycle Technologies: A Review. Energies, 2014, 7, 751-766.	1.6	44
36	Temperature and concentration fields in a generator integrated to single stage heat transformer using Water/Carrol mixture. Journal of Thermal Science, 2014, 23, 564-571.	0.9	6

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37	Estimation of LiBr-H <sub>2</sub> O Using Multimode Interference (MMI). Journal of Applied Research and Technology, 2014, 12, 41-44.	0.6	4
38	Evaluation of the thermodynamic effectiveness of a plate heat exchanger integrated into an experimental single stage heat transformer operating with Water/Carrol mixture. Experimental Thermal and Fluid Science, 2013, 51, 257-263.	1.5	28
39	A novel cogeneration system: A proton exchange membrane fuel cell coupled to a heat transformer. Applied Thermal Engineering, 2013, 50, 1530-1535.	3.0	20
40	State of the Art of Sorption Refrigeration Systems. Green Energy and Technology, 2011, , 55-73.	0.4	3
41	Profitability Assessment of the Cogeneration System. Green Energy and Technology, 2011, , 133-154.	0.4	0
42	Eergy analysis of an experimental single-stage heat transformer operating with single water/lithium bromide and using additives (1-octanol and 2-ethyl-1-hexanol). Applied Thermal Engineering, 2011, 31, 3526-3532.	3.0	40
43	Analysis and characterization of an optical fiber for Carrolâ€“Water liquid pair. Energy, 2011, 36, 3952-3958.	4.5	8
44	A study of a bubble absorber using a plate heat exchanger with NH <sub>3</sub> â€“H <sub>2</sub> O, NH <sub>3</sub> â€“LiNO <sub>3</sub> and NH <sub>3</sub> â€“NaSCN. Applied Thermal Engineering, 2011, 31, 1869-1876.	3.0	34
45	Cogeneration Fuel Cell-Sorption Air Conditioning Systems. Green Energy and Technology, 2011, , .	0.4	22
46	Sorption Refrigeration Systems. Green Energy and Technology, 2011, , 75-102.	0.4	0
47	Selected Fuel Cells for Cogeneration CHP Processes. Green Energy and Technology, 2011, , 37-53.	0.4	0
48	Energy and Cogeneration. Green Energy and Technology, 2011, , 1-24.	0.4	0
49	Potential Applications in Demonstration Projects. Green Energy and Technology, 2011, , 121-131.	0.4	0
50	A neural network approach and thermodynamic model of waste energy recovery in a heat transformer in a water purification process. Desalination, 2009, 243, 273-285.	4.0	14
51	Instantaneous Determination of Heat Transfer Coefficients in a Steam Generator for an Alternative Energy Upgrade System. The Open Renewable Energy Journal, 2009, 2, 116-123.	0.7	1
52	Optimal water purification using low grade waste heat in an absorption heat transformer. Desalination, 2008, 220, 506-513.	4.0	43
53	Mathematical Model and Simulation of a Plate Heat Exchanger Operating as Steam Generator. , 2008, , 460-464.		0
54	Increase of COP for heat transformer in water purification systems. Part I â€“ Increasing heat source temperature. Applied Thermal Engineering, 2007, 27, 1043-1053.	3.0	55

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55	Simulation of an air conditioning absorption refrigeration system in a co-generation process combining a proton exchange membrane fuel cell. International Journal of Hydrogen Energy, 2007, 32, 3174-3182.	3.8	33
56	Increase of COP for heat transformer in water purification systems. Part II " Without increasing heat source temperature. Applied Thermal Engineering, 2007, 27, 1054-1061.	3.0	26
57	Laboratory instrumentation and object oriented design for working fluid control in an "absorption heat pump" using Water / Carrol. , 2007, , 429-432.		1
58	Working fluid concentration measurement in solar air conditioning systems. Solar Energy, 2006, 80, 177-181.	2.9	16
59	Comparison of instrumental methods for in-line determination of LiBr concentration in solar absorption thermal systems. Solar Energy Materials and Solar Cells, 2006, 90, 2549-2555.	3.0	5
60	Preliminary Instrumentation and Object Oriented Design for Working Fluid Control in an Absorption Heat Pump Using Water / Carrol. , 2006, , .		1
61	Solitons propagation in non-homogeneous periodic media by tandem arrangement of nonlinear materials. , 2006, , .		0
62	Detection of the Concentration of LiBr in Cooling Systems by Means of Optical Transmittancia. , 2006, , .		0
63	Monomethylamine"water vapour absorption refrigeration system. Applied Thermal Engineering, 2005, 25, 867-876.	3.0	17
64	Temperature sensing based on optical transmission in a LiBr heat pump. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	1
65	Interferometer Type Pressure Microsensor. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	0
66	Optical Fiber Communications: Recent Contributions in Photonic Device Technology. Fiber and Integrated Optics, 2005, 24, 371-394.	1.7	5
67	Performance evaluation of a monomethylamine"water solar absorption refrigeration system for milk cooling purposes. Applied Thermal Engineering, 2004, 24, 1103-1115.	3.0	21
68	Purification of seawater using absorption heat transformers with water-(LiBr+LiI+LiNO <sub>3</sub> +LiCl) and low temperature heat sources. Desalination, 2004, 166, 209-214.	4.0	29
69	Portable water purification system integrated to a heat transformer. Desalination, 2004, 165, 385-391.	4.0	26
70	Portable water purification system integrated to a heat transformer. Desalination, 2004, 165, 385-391.	4.0	39
71	Theoretical and experimental comparison of the performance of a single-stage heat transformer operating with water/lithium bromide and water/Carrol, . International Journal of Energy Research, 2002, 26, 747-762.	2.2	36
72	Theoretical comparison of performance of an absorption heat pump system for cooling and heating operating with an aqueous ternary hydroxide and water/lithium bromide. Applied Thermal Engineering, 2001, 21, 1137-1147.	3.0	31

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73	Comparison of the modeling of a solar absorption system for simultaneous cooling and heating operating with an aqueous ternary hydroxide and with water/lithium bromide. Solar Energy Materials and Solar Cells, 2001, 70, 301-308.	3.0	20
74	Single-stage and advanced absorption heat transformers operating with lithium bromide mixtures used to increase solar pond's temperature. Solar Energy Materials and Solar Cells, 2001, 70, 321-333.	3.0	30
75	Dynamic study of the thermal behaviour of solar thermochemical refrigerator: barium chloride-ammonia for ice production. Solar Energy Materials and Solar Cells, 2001, 70, 401-413.	3.0	19
76	Thermodynamic analysis of monomethylamine-water solutions in a single-stage solar absorption refrigeration cycle at low generator temperatures. Solar Energy Materials and Solar Cells, 2001, 70, 287-300.	3.0	43
77	Comparison of the theoretical performance of a solar air conditioning system operating with water/lithium bromide and an aqueous ternary hydroxide. Solar Energy Materials and Solar Cells, 2000, 63, 387-399.	3.0	25
78	Evaluation of a heat transformer powered by a solar pond. Solar Energy Materials and Solar Cells, 2000, 63, 413-422.	3.0	21
79	Experimental evaluation of a single-stage heat transformer operating with the water/Carrolâ„¢ mixture. Energy, 1999, 24, 317-326.	4.5	29
80	Theoretical comparison of single stage and advanced absorption heat transformers operating with water/lithium bromide and water/Carrol mixtures. International Journal of Energy Research, 1998, 22, 427-442.	2.2	18
81	Thermodynamic design data for absorption heat transformers. Part seven: operating on an aqueous ternary hydroxide. Applied Thermal Engineering, 1998, 18, 147-156.	3.0	10
82	Modelling of single-stage and advanced absorption heat transformers operating with the water/carrol mixture. Applied Thermal Engineering, 1997, 17, 1111-1122.	3.0	18
83	Energy Evaluation of the Use of an Absorption Heat Pump in Water Distillation Process. , 0, , .		1
84	On the Dimensionless Absorption Heat Pump Widespread. Journal of Advanced Thermal Science Research, 0, 8, 10-20.	0.4	3