

Joaquín Navarro-Esbrán

List of Publications by Year in descending order

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76
papers

3,537
citations

101543

36
h-index

138484

58
g-index

76
all docs

76
docs citations

76
times ranked

1994
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal refrigerant mixture in single-stage high-temperature heat pumps based on a multiparameter evaluation. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 101989.	2.7	5
2	Semi-empirical analysis of HFC supermarket refrigeration retrofit with advanced configurations from energy, environmental, and economic perspectives. <i>International Journal of Refrigeration</i> , 2022, 137, 257-271.	3.4	5
3	Dual fluid trigeneration combined organic Rankine-compound ejector-multi evaporator vapour compression system. <i>Energy Conversion and Management</i> , 2022, 267, 115876.	9.2	6
4	Comparative analysis of HFO-1234ze(E) and R-515B as low GWP alternatives to HFC-134a in moderately high temperature heat pumps. <i>International Journal of Refrigeration</i> , 2021, 124, 197-206.	3.4	28
5	High-Temperature Heat Pumps for Sustainable Industry. <i>Advances in Sustainability Science and Technology</i> , 2021, , 287-297.	0.6	1
6	Advanced high temperature heat pump configurations using low GWP refrigerants for industrial waste heat recovery: A comprehensive study. <i>Energy Conversion and Management</i> , 2021, 229, 113752.	9.2	71
7	High-temperature heat pump simulator (heatpack) for application in computer laboratory sessions for engineering students. <i>Journal of Technology and Science Education</i> , 2021, 11, 16.	1.2	1
8	Conventional and Advanced Exergoeconomic Analysis of a Compound Ejector-Heat Pump for Simultaneous Cooling and Heating. <i>Energies</i> , 2021, 14, 3511.	3.1	9
9	Experimental comparison of HFO-1234ze(E) and R-515B to replace HFC-134a in heat pump water heaters and moderately high temperature heat pumps. <i>Applied Thermal Engineering</i> , 2021, 196, 117256.	6.0	22
10	HCFO-1224yd(Z) as HFC-245fa drop-in alternative in low temperature ORC systems: Experimental analysis in a waste heat recovery real facility. <i>Energy</i> , 2020, 193, 116701.	8.8	16
11	Ultralow-temperature refrigeration systems: Configurations and refrigerants to reduce the environmental impact. <i>International Journal of Refrigeration</i> , 2020, 111, 147-158.	3.4	84
12	Thermo-economic optimization of small-scale Organic Rankine Cycle: A case study for low-grade industrial waste heat recovery. <i>Energy</i> , 2020, 213, 118898.	8.8	15
13	Theoretical performance evaluation of ejector and economizer with parallel compression configurations in high temperature heat pumps. <i>International Journal of Refrigeration</i> , 2020, 119, 356-365.	3.4	13
14	High temperature heat pump integration into district heating network. <i>Energy Conversion and Management</i> , 2020, 210, 112719.	9.2	52
15	Multi-objective optimization of a novel reversible High-Temperature Heat Pump-Organic Rankine Cycle (HTHP-ORC) for industrial low-grade waste heat recovery. <i>Energy Conversion and Management</i> , 2019, 197, 111908.	9.2	55
16	Experimental exergy and energy analysis of a novel high-temperature heat pump with scroll compressor for waste heat recovery. <i>Applied Energy</i> , 2019, 253, 113504.	10.1	53
17	Modeling of a PCM TES Tank Used as an Alternative Heat Sink for a Water Chiller. <i>Analysis of Performance and Energy Savings</i> . <i>Energies</i> , 2019, 12, 3652.	3.1	10
18	Thermodynamic analysis of low GWP alternatives to HFC-245fa in high-temperature heat pumps: HCFO-1224yd(Z), HCFO-1233zd(E) and HFO-1336mzz(Z). <i>Applied Thermal Engineering</i> , 2019, 152, 762-777.	6.0	74

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19	Experimental influence of an internal heat exchanger (IHx) using R513A and R134a in a vapor compression system. Applied Thermal Engineering, 2019, 147, 482-491.	6.0	31
20	Theoretical evaluation of different high-temperature heat pump configurations for low-grade waste heat recovery. International Journal of Refrigeration, 2018, 90, 229-237.	3.4	58
21	Optimisation of high-temperature heat pump cascades with internal heat exchangers using refrigerants with low global warming potential. Energy, 2018, 165, 1248-1258.	8.8	50
22	Experimental drop-in replacement of R404A for warm countries using the low GWP mixtures R454C and R455A. International Journal of Refrigeration, 2018, 91, 136-145.	3.4	48
23	Experimental exergy analysis of R513A to replace R134a in a small capacity refrigeration system. Energy, 2018, 162, 99-110.	8.8	47
24	Refrigerant R32 as lower GWP working fluid in residential air conditioning systems in Europe and the USA. Renewable and Sustainable Energy Reviews, 2017, 80, 1031-1042.	16.4	91
25	Experimental study of an Organic Rankine Cycle with HFO-1336mzz-Z as a low global warming potential working fluid for micro-scale low temperature applications. Energy, 2017, 133, 79-89.	8.8	44
26	Experimental assessment of R134a and its lower GWP alternative R513A. International Journal of Refrigeration, 2017, 74, 682-688.	3.4	69
27	Combined cold, heat and power system, based on an organic Rankine cycle, using biomass as renewable heat source for energy saving and emissions reduction in a supermarket. Energy Procedia, 2017, 129, 652-659.	1.8	15
28	Experimental evaluation of system modifications to increase R1234ze(E) cooling capacity. Applied Thermal Engineering, 2017, 111, 786-792.	6.0	26
29	Thermo-economic evaluation of low global warming potential alternatives to HFC-245fa in Organic Rankine Cycles. Energy Procedia, 2017, 142, 1199-1205.	1.8	8
30	R1234yf and R1234ze as alternatives to R134a in Organic Rankine Cycles for low temperature heat sources. Energy Procedia, 2017, 142, 1192-1198.	1.8	34
31	Comparative evaluation of R1234yf, R1234ze(E) and R450A as alternatives to R134a in a variable speed reciprocating compressor. Energy, 2016, 114, 753-766.	8.8	54
32	Experimental evaluation of HCFO-1233zd-E as HFC-245fa replacement in an Organic Rankine Cycle system for low temperature heat sources. Applied Thermal Engineering, 2016, 98, 954-961.	6.0	50
33	Evaluation of R448A and R450A as low-GWP alternatives for R404A and R134a using a micro-fin tube evaporator model. Applied Thermal Engineering, 2016, 98, 330-339.	6.0	56
34	A review of refrigerant R1234ze(E) recent investigations. Applied Thermal Engineering, 2016, 95, 211-222.	6.0	142
35	Experimental characterization of an Organic Rankine Cycle (ORC) for micro-scale CHP applications. Applied Thermal Engineering, 2015, 79, 1-8.	6.0	57
36	Analysis based on EU Regulation No 517/2014 of new HFC/HFO mixtures as alternatives of high GWP refrigerants in refrigeration and HVAC systems. International Journal of Refrigeration, 2015, 52, 21-31.	3.4	204

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37	Experimental study of an R1234ze(E)/R134a mixture (R450A) as R134a replacement. International Journal of Refrigeration, 2015, 51, 52-58.	3.4	75
38	Experimental characterization of an ORC (organic Rankine cycle) for power and CHP (combined heat) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	8.8	37
39	Thermodynamic analysis of a combined organic Rankine cycle and vapor compression cycle system activated with low temperature heat sources using low GWP fluids. Applied Thermal Engineering, 2015, 87, 444-453.	6.0	73
40	Commercial refrigeration “ An overview of current status. International Journal of Refrigeration, 2015, 57, 186-196.	3.4	94
41	Experimental study of an ORC (organic Rankine cycle) for low grade waste heat recovery in a ceramic industry. Energy, 2015, 85, 534-542.	8.8	146
42	A comparison between the modeling of a reciprocating compressor using artificial neural network and physical model. International Journal of Refrigeration, 2015, 59, 144-156.	3.4	23
43	Drop-in analysis of an internal heat exchanger in a vapour compression system using R1234ze(E) and R450A as alternatives for R134a. Energy, 2015, 90, 1636-1644.	8.8	62
44	Experimental evaluation of R448A as R404A lower-GWP alternative in refrigeration systems. Energy Conversion and Management, 2015, 105, 756-762.	9.2	58
45	Development and validation of a micro-fin tubes evaporator model using R134a and R1234yf as working fluids. International Journal of Refrigeration, 2015, 50, 32-43.	3.4	16
46	Performance evaluation of an Organic Rankine Cycle (ORC) for power applications from low grade heat sources. Applied Thermal Engineering, 2015, 75, 763-769.	6.0	50
47	Theoretical comparison of low GWP alternatives for different refrigeration configurations taking R404A as baseline. International Journal of Refrigeration, 2014, 44, 81-90.	3.4	57
48	Theoretical energy performance evaluation of different single stage vapour compression refrigeration configurations using R1234yf and R1234ze(E) as working fluids. International Journal of Refrigeration, 2014, 44, 141-150.	3.4	64
49	Small capacity absorption systems for cooling and power with a scroll expander and ammonia based working fluids. Applied Thermal Engineering, 2014, 72, 258-265.	6.0	22
50	Drop-in energy performance evaluation of R1234yf and R1234ze(E) in a vapor compression system as R134a replacements. Applied Thermal Engineering, 2014, 71, 259-265.	6.0	197
51	Low GWP alternatives to HFC-245fa in Organic Rankine Cycles for low temperature heat recovery: HCFO-1233zd-E and HFO-1336mzz-Z. Applied Thermal Engineering, 2014, 71, 204-212.	6.0	101
52	Characterization and modeling of a scroll expander with air and ammonia as working fluid. Applied Thermal Engineering, 2014, 70, 630-640.	6.0	38
53	Shell-and-tube evaporator model performance with different two-phase flow heat transfer correlations. Experimental analysis using R134a and R1234yf. Applied Thermal Engineering, 2014, 62, 80-89.	6.0	24
54	HERRAMIENTA COMPUTACIONAL PARA ANALIZAR UN SISTEMA EXPERIMENTAL DE REFRIGERACIÓN USANDO HOJAS DE CALCULO. Dyna (Spain), 2014, 89, 608-615.	0.2	1

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55	Dynamic model of a shell-and-tube condenser. Analysis of the mean void fraction correlation influence on the model performance. <i>Energy</i> , 2013, 59, 521-533.	8.8	15
56	Comparative study of transcritical vapor compression configurations using CO ₂ as refrigeration mode base on simulation. <i>Applied Thermal Engineering</i> , 2013, 51, 1038-1046.	6.0	28
57	Experimental analysis of the internal heat exchanger influence on a vapour compression system performance working with R1234yf as a drop-in replacement for R134a. <i>Applied Thermal Engineering</i> , 2013, 59, 153-161.	6.0	71
58	Bottoming organic Rankine cycle configurations to increase Internal Combustion Engines power output from cooling water waste heat recovery. <i>Applied Thermal Engineering</i> , 2013, 61, 364-371.	6.0	99
59	Experimental analysis of R1234yf as a drop-in replacement for R134a in a vapor compression system. <i>International Journal of Refrigeration</i> , 2013, 36, 870-880.	3.4	153
60	A simplified black-box model oriented to chilled water temperature control in a variable speed vapour compression system. <i>Applied Thermal Engineering</i> , 2011, 31, 329-335.	6.0	41
61	Steady-state model of a variable speed vapor compression system using R134a as working fluid. <i>International Journal of Energy Research</i> , 2010, 34, 933-945.	4.5	23
62	Application of a lumped model for predicting energy performance of a variable-speed vapour compression system. <i>Applied Thermal Engineering</i> , 2010, 30, 286-294.	6.0	23
63	Automated modelling of complex refrigeration cycles through topological structure analysis. <i>Applied Thermal Engineering</i> , 2009, 29, 3529-3535.	6.0	2
64	A dynamic mathematical model of a shell-and-tube evaporator. validation with pure and blend refrigerants. <i>International Journal of Energy Research</i> , 2007, 31, 232-244.	4.5	8
65	Analysis of the variation mechanism in the main energetic parameters in a single-stage vapour compression plant. <i>Applied Thermal Engineering</i> , 2007, 27, 167-176.	6.0	12
66	A low data requirement model of a variable-speed vapour compression refrigeration system based on neural networks. <i>International Journal of Refrigeration</i> , 2007, 30, 1452-1459.	3.4	34
67	ITERATIVE DESIGN OF CONTROL SYSTEMS: AN APPROACH TO OVERCOME THE RESONANT EFFECT ON HEAT EXCHANGERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 123-128.	0.4	1
68	A vapour compression chiller fault detection technique based on adaptative algorithms. Application to on-line refrigerant leakage detection. <i>International Journal of Refrigeration</i> , 2006, 29, 716-723.	3.4	35
69	Boiling heat-transfer coefficient variation for R407C inside horizontal tubes of a refrigerating vapour-compression plant's shell-and-tube evaporator. <i>Applied Energy</i> , 2006, 83, 239-252.	10.1	11
70	Experimental evaluation of the internal heat exchanger influence on a vapour compression plant energy efficiency working with R22, R134a and R407C. <i>Energy</i> , 2005, 30, 621-636.	8.8	36
71	Experimental evaluation of a vapour compression plant performance using R134a, R407C and R22 as working fluids. <i>Applied Thermal Engineering</i> , 2004, 24, 1905-1917.	6.0	39
72	Considerations about evaporator thermal design in a vapour compression liquid chiller. Experimental analysis with HFC fluids (R134a and R407C). <i>International Journal of Energy Research</i> , 2004, 28, 1329-1341.	4.5	4

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73	Time dependence of linear stability parameters of a BWR. Progress in Nuclear Energy, 2003, 43, 187-194.	2.9	11
74	BWR stability monitoring using adaptive methods. Annals of Nuclear Energy, 2003, 30, 755-773.	1.8	11
75	Time series analysis and forecasting techniques for municipal solid waste management. Resources, Conservation and Recycling, 2002, 35, 201-214.	10.8	123
76	Reactor noise analysis based on the singular value decomposition (SVD). Annals of Nuclear Energy, 1998, 25, 907-921.	1.8	15