Jaime Sieres

List of Publications by Year in descending order

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39 papers	1,306 citations	430874 18 h-index	345221 36 g-index
39 all docs	39 docs citations	39 times ranked	934 citing authors

#	Article	IF	Citations
1	A general review of the Wilson plot method and its modifications to determine convection coefficients in heat exchange devices. Applied Thermal Engineering, 2007, 27, 2745-2757.	6.0	222
2	Theoretical analysis of a CO2â€“NH3 cascade refrigeration system for cooling applications at low temperatures. Applied Thermal Engineering, 2009, 29, 1577-1583.	6.0	133
3	Experimental analysis of a domestic electric hot water storage tank. Part II: dynamic mode of operation. Applied Thermal Engineering, 2007, 27, 137-144.	6.0	113
4	Compressionâ€“absorption cascade refrigeration system. Applied Thermal Engineering, 2006, 26, 502-512.	6.0	98
5	Thermodynamic and heat transfer analyses for R1234yf and R1234ze(E) as drop-in replacements for R134a in a small power refrigerating system. Applied Thermal Engineering, 2015, 80, 42-54.	6.0	89
6	The importance of the ammonia purification process in ammoniaâ€“water absorption systems. Energy Conversion and Management, 2006, 47, 1975-1987.	9.2	86
7	Experimental analysis of a domestic electric hot water storage tank. Part I: Static mode of operation. Applied Thermal Engineering, 2007, 27, 129-136.	6.0	74
8	Ammoniaâ€“water absorption in vertical tubular absorbers. International Journal of Thermal Sciences, 2005, 44, 277-288.	4.9	50
9	Laboratory Practices with the Wilson Plot Method. Experimental Heat Transfer, 2007, 20, 123-135.	3.2	41
10	Experimental analysis of R1234yf as a drop-in replacement for R134a in a small power refrigerating system. International Journal of Refrigeration, 2018, 91, 230-238.	3.4	37
11	Distillation column configurations in ammoniaâ€“water absorption refrigeration systems. International Journal of Refrigeration, 2003, 26, 28-34.	3.4	29
12	Heat and mass transfer analysis of a helical coil rectifier in an ammoniaâ€“water absorption system. International Journal of Thermal Sciences, 2003, 42, 783-794.	4.9	27
13	Analysis of an air cooled ammoniaâ€“water vertical tubular absorber. International Journal of Thermal Sciences, 2007, 46, 93-103.	4.9	26
14	Effect of surface radiation on buoyant convection in vertical triangular cavities with variable aperture angles. International Journal of Heat and Mass Transfer, 2007, 50, 5139-5149.	4.8	25
15	Experimental apparatus for measuring heat transfer coefficients by the Wilson plot method. European Journal of Physics, 2005, 26, N1-N11.	0.6	22
16	Ammoniaâ€“water absorption refrigeration systems with flooded evaporators. Applied Thermal Engineering, 2006, 26, 2236-2246.	6.0	22
17	Drop-in performance of the low-GWP alternative refrigerants R452B and R454B in an R410A liquid-to-water heat pump. Applied Thermal Engineering, 2021, 182, 116049.	6.0	21
18	Simultaneous heat and mass transfer of a packed distillation column for ammoniaâ€“water absorption refrigeration systems. International Journal of Thermal Sciences, 2002, 41, 927-935.	4.9	18

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19	Influence of the refrigerant charge in an R407C liquid-to-water heat pump for space heating and domestic hot water production. International Journal of Refrigeration, 2020, 110, 28-37.	3.4	17
20	Experimental investigation of mass transfer performance with some random packings for ammonia rectification in ammoniaâ€“water absorption refrigeration systems. International Journal of Thermal Sciences, 2007, 46, 699-706.	4.9	16
21	Mass transfer characteristics of a structured packing for ammonia rectification in ammoniaâ€“water absorption refrigeration systems. International Journal of Refrigeration, 2007, 30, 58-67.	3.4	15
22	Analysis of the impact of different operating conditions on the performance of a reversible heat pump with domestic hot water production. International Journal of Refrigeration, 2018, 86, 282-291.	3.4	15
23	Evaluation of the column components size on the vapour enrichment and system performance in small power NH3â€“H2O absorption refrigeration machines. International Journal of Refrigeration, 2006, 29, 579-588.	3.4	14
24	Experimental characterization of the rectification process in ammoniaâ€“water absorption systems with a large-specific-area corrugated sheet structured packing. International Journal of Refrigeration, 2009, 32, 1230-1240.	3.4	14
25	Modeling of simultaneous heat and mass transfer processes in ammoniaâ€“water absorption systems from general correlations. Heat and Mass Transfer, 2007, 44, 113-123.	2.1	13
26	Experimental analysis of ammoniaâ€“water rectification in absorption systems with the 10mm metal Pall ring packing. International Journal of Refrigeration, 2008, 31, 270-278.	3.4	11
27	Simulation of compression refrigeration systems. Computer Applications in Engineering Education, 2006, 14, 188-197.	3.4	9
28	Uncertainty analysis for the experimental estimation of heat transfer correlations combining the Wilson plot method and the Monte Carlo technique. International Journal of Thermal Sciences, 2018, 129, 309-319.	4.9	9
29	Research on the condensation of the ammoniaâ€“water mixture on a horizontal smooth tube. International Journal of Refrigeration, 2008, 31, 304-314.	3.4	7
30	Performance analysis of a R407C liquid-to-water heat pump: Effect of a liquidâ€“vapor heat exchanger and domestic hot water production. International Journal of Refrigeration, 2019, 101, 125-135.	3.4	7
31	A hybrid formulation for fast explicit calculation ofÂthermodynamic properties of refrigerants. International Journal of Refrigeration, 2012, 35, 1021-1034.	3.4	6
32	Natural convection air flow in vertical upright-angled triangular cavities under realistic thermal boundary conditions. Thermal Science, 2016, 20, 1407-1420.	1.1	5
33	Calculation procedure to determine average mass transfer coefficients in packed columns from experimental data for ammoniaâ€“water absorption refrigeration systems. Heat and Mass Transfer, 2008, 44, 1229-1239.	2.1	3
34	Condensation of superheated R134a and R437A inside a vertical tube. Science and Technology for the Built Environment, 2017, 23, 884-895.	1.7	3
35	Semi-analytical solution of unsteady heat conduction in plain walls with equal surface temperatures: The Transversal Method Of Lines (TMOL) delimited to the â€œsmall timeâ€•sub-domain. International Communications in Heat and Mass Transfer, 2020, 116, 104687.	5.6	3
36	Seasonal Efficiency of a Brine-to-Water Heat Pump with Different Control Options according to Ecodesign Standards. Clean Technologies, 2022, 4, 542-554.	4.2	3

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37	Plain correlation asymptotes to predict the center and mean temperatures and total heat transfer in simple solid objects with uniform surface temperature at limiting small-time conditions. International Journal of Heat and Mass Transfer, 2019, 130, 733-739.	4.8	2
38	Analysis of a heat pipe demonstration unit engaging the Wilson plot method. European Journal of Physics, 2014, 35, 035004.	0.6	1
39	Unsteady Conduction in a Horizontal Solid Cylinder Cooled by Natural Convection: Alternate Lumped Criterion in Terms of the Solid Material. Journal of Heat Transfer, 2014, 136, .	2.1	0