

# 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	Seasonal Efficiency of a Brine-to-Water Heat Pump with Different Control Options according to Ecodesign Standards. <i>Clean Technologies</i> , 2022, 4, 542-554.	4.2	3
2	Drop-in performance of the low-GWP alternative refrigerants R452B and R454B in an R410A liquid-to-water heat pump. <i>Applied Thermal Engineering</i> , 2021, 182, 116049.	6.0	21
3	Influence of the refrigerant charge in an R407C liquid-to-water heat pump for space heating and domestic hot water production. <i>International Journal of Refrigeration</i> , 2020, 110, 28-37.	3.4	17
4	Semi-analytical solution of unsteady heat conduction in plain walls with equal surface temperatures: The Transversal Method Of Lines (TMOL) delimited to the "small time" sub-domain. <i>International Communications in Heat and Mass Transfer</i> , 2020, 116, 104687.	5.6	3
5	Performance analysis of a R407C liquid-to-water heat pump: Effect of a liquid-vapor heat exchanger and domestic hot water production. <i>International Journal of Refrigeration</i> , 2019, 101, 125-135.	3.4	7
6	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. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 733-739.	4.8	2
7	Uncertainty analysis for the experimental estimation of heat transfer correlations combining the Wilson plot method and the Monte Carlo technique. <i>International Journal of Thermal Sciences</i> , 2018, 129, 309-319.	4.9	9
8	Analysis of the impact of different operating conditions on the performance of a reversible heat pump with domestic hot water production. <i>International Journal of Refrigeration</i> , 2018, 86, 282-291.	3.4	15
9	Experimental analysis of R1234yf as a drop-in replacement for R134a in a small power refrigerating system. <i>International Journal of Refrigeration</i> , 2018, 91, 230-238.	3.4	37
10	Condensation of superheated R134a and R437A inside a vertical tube. <i>Science and Technology for the Built Environment</i> , 2017, 23, 884-895.	1.7	3
11	Natural convection air flow in vertical upright-angled triangular cavities under realistic thermal boundary conditions. <i>Thermal Science</i> , 2016, 20, 1407-1420.	1.1	5
12	Thermodynamic and heat transfer analyses for R1234yf and R1234ze(E) as drop-in replacements for R134a in a small power refrigerating system. <i>Applied Thermal Engineering</i> , 2015, 80, 42-54.	6.0	89
13	Unsteady Conduction in a Horizontal Solid Cylinder Cooled by Natural Convection: Alternate Lumped Criterion in Terms of the Solid Material. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	0
14	Analysis of a heat pipe demonstration unit engaging the Wilson plot method. <i>European Journal of Physics</i> , 2014, 35, 035004.	0.6	1
15	A hybrid formulation for fast explicit calculation of thermodynamic properties of refrigerants. <i>International Journal of Refrigeration</i> , 2012, 35, 1021-1034.	3.4	6
16	Experimental characterization of the rectification process in ammonia-water absorption systems with a large-specific-area corrugated sheet structured packing. <i>International Journal of Refrigeration</i> , 2009, 32, 1230-1240.	3.4	14
17	Theoretical analysis of a CO <sub>2</sub> -NH <sub>3</sub> cascade refrigeration system for cooling applications at low temperatures. <i>Applied Thermal Engineering</i> , 2009, 29, 1577-1583.	6.0	133
18	Experimental analysis of ammonia-water rectification in absorption systems with the 10mm metal Pall ring packing. <i>International Journal of Refrigeration</i> , 2008, 31, 270-278.	3.4	11

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19	Calculation procedure to determine average mass transfer coefficients in packed columns from experimental data for ammonia-water absorption refrigeration systems. <i>Heat and Mass Transfer</i> , 2008, 44, 1229-1239.	2.1	3
20	Research on the condensation of the ammonia-water mixture on a horizontal smooth tube. <i>International Journal of Refrigeration</i> , 2008, 31, 304-314.	3.4	7
21	Laboratory Practices with the Wilson Plot Method. <i>Experimental Heat Transfer</i> , 2007, 20, 123-135.	3.2	41
22	Analysis of an air cooled ammonia-water vertical tubular absorber. <i>International Journal of Thermal Sciences</i> , 2007, 46, 93-103.	4.9	26
23	Experimental investigation of mass transfer performance with some random packings for ammonia rectification in ammonia-water absorption refrigeration systems. <i>International Journal of Thermal Sciences</i> , 2007, 46, 699-706.	4.9	16
24	Experimental analysis of a domestic electric hot water storage tank. Part I: Static mode of operation. <i>Applied Thermal Engineering</i> , 2007, 27, 129-136.	6.0	74
25	Effect of surface radiation on buoyant convection in vertical triangular cavities with variable aperture angles. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 5139-5149.	4.8	25
26	Mass transfer characteristics of a structured packing for ammonia rectification in ammonia-water absorption refrigeration systems. <i>International Journal of Refrigeration</i> , 2007, 30, 58-67.	3.4	15
27	Modeling of simultaneous heat and mass transfer processes in ammonia-water absorption systems from general correlations. <i>Heat and Mass Transfer</i> , 2007, 44, 113-123.	2.1	13
28	Experimental analysis of a domestic electric hot water storage tank. Part II: dynamic mode of operation. <i>Applied Thermal Engineering</i> , 2007, 27, 137-144.	6.0	113
29	A general review of the Wilson plot method and its modifications to determine convection coefficients in heat exchange devices. <i>Applied Thermal Engineering</i> , 2007, 27, 2745-2757.	6.0	222
30	Compression-absorption cascade refrigeration system. <i>Applied Thermal Engineering</i> , 2006, 26, 502-512.	6.0	98
31	Ammonia-water absorption refrigeration systems with flooded evaporators. <i>Applied Thermal Engineering</i> , 2006, 26, 2236-2246.	6.0	22
32	Evaluation of the column components size on the vapour enrichment and system performance in small power NH <sub>3</sub> -H <sub>2</sub> O absorption refrigeration machines. <i>International Journal of Refrigeration</i> , 2006, 29, 579-588.	3.4	14
33	The importance of the ammonia purification process in ammonia-water absorption systems. <i>Energy Conversion and Management</i> , 2006, 47, 1975-1987.	9.2	86
34	Simulation of compression refrigeration systems. <i>Computer Applications in Engineering Education</i> , 2006, 14, 188-197.	3.4	9
35	Ammonia-water absorption in vertical tubular absorbers. <i>International Journal of Thermal Sciences</i> , 2005, 44, 277-288.	4.9	50
36	Experimental apparatus for measuring heat transfer coefficients by the Wilson plot method. <i>European Journal of Physics</i> , 2005, 26, N1-N11.	0.6	22

#	ARTICLE	IF	CITATIONS
37	Distillation column configurations in ammonia-water absorption refrigeration systems. International Journal of Refrigeration, 2003, 26, 28-34.	3.4	29
38	Heat and mass transfer analysis of a helical coil rectifier in an ammonia-water absorption system. International Journal of Thermal Sciences, 2003, 42, 783-794.	4.9	27
39	Simultaneous heat and mass transfer of a packed distillation column for ammonia-water absorption refrigeration systems. International Journal of Thermal Sciences, 2002, 41, 927-935.	4.9	18