Piotr A Domanski

List of Publications by Year
in descending order

34	2,242	279798	395702
papers	citations	23 h-index	33 g-index

39	39	39	1353
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Limited options for low-global-warming-potential refrigerants. Nature Communications, 2017, 8, 14476.	12.8	313
2	A thermodynamic analysis of refrigerants: Possibilities and tradeoffs for Low-GWP refrigerants. International Journal of Refrigeration, 2014, 38, 80-92.	3.4	280
3	Review of alternative cooling technologies. Applied Thermal Engineering, 2014, 64, 252-262.	6.0	209
4	Comparitive analysis of an automotive air conditioning systems operating with CO2 and R134a. International Journal of Refrigeration, 2002, 25, 19-32.	3.4	191
5	Design of a steady-state detector for fault detection and diagnosis of a residential air conditioner. International Journal of Refrigeration, 2008, 31, 790-799.	3.4	115
6	Evaluation of suction-line/liquid-line heat exchange in the refrigeration cycle. International Journal of Refrigeration, 1994, 17, 487-493.	3.4	109
7	Selecting HVAC systems to achieve comfortable and cost-effective residential net-zero energy buildings. Applied Energy, 2018, 212, 577-591.	10.1	101
8	An improved correlation for two-phase pressure drop of R-22 and R-410A in 180Â° return bends. Applied Thermal Engineering, 2008, 28, 793-800.	6.0	87
9	The hunt for nonflammable refrigerant blends to replace R-134a. International Journal of Refrigeration, 2019, 104, 484-495.	3.4	87
10	Low-GWP refrigerants for medium and high-pressure applications. International Journal of Refrigeration, 2017, 84, 198-209.	3.4	70
11	Performance of a residential heat pump operating in the cooling mode with single faults imposed. Applied Thermal Engineering, 2009, 29, 770-778.	6.0	64
12	A thermodynamic analysis of refrigerants: Performance limits of the vapor compression cycle. International Journal of Refrigeration, 2014, 38, 71-79.	3.4	64
13	A simplified cycle simulation model for the performance rating of refrigerants and refrigerant mixtures. International Journal of Refrigeration, 1992, 15, 81-88.	3.4	59
14	Glide matching with binary and ternary zeotropic refrigerant mixtures Part 1. An experimental study. International Journal of Refrigeration, 1994, 17, 220-225.	3.4	45
15	Performance of a finned-tube evaporator optimized for different refrigerants and its effect on system efficiency. International Journal of Refrigeration, 2005, 28, 820-827.	3.4	42
16	An Optimized Design of Finned-Tube Evaporators Using the Learnable Evolution Model. HVAC and R Research, 2004, 10, 201-211.	0.6	38
17	Optimization of finned-tube condensers using an intelligent system. International Journal of Refrigeration, 2007, 30, 482-488.	3.4	38
18	Normalized performance parameters for a residential heat pump in the cooling mode with single faults imposed. Applied Thermal Engineering, 2014, 67, 1-15.	6.0	34

#	Article	IF	Citations
19	Glide matching with binary and ternary zeotropic refrigerant mixtures Part 2. A computer simulation. International Journal of Refrigeration, 1994, 17, 226-230.	3.4	27
20	Residential heat pump heating performance with single faults imposed. Applied Thermal Engineering, 2011, 31, 765-771.	6.0	27
21	Refrigerant performance evaluation including effects of transport properties and optimized heat exchangers. International Journal of Refrigeration, 2017, 80, 52-65.	3.4	27
22	Effect of common faults on the performance of different types of vapor compression systems. Applied Thermal Engineering, 2016, 98, 61-72.	6.0	25
23	Mass flow rate of R-410A through short tubes working near the critical point. International Journal of Refrigeration, 2005, 28, 547-553.	3.4	23
24	Mathematical model of an air-to-air heat pump equipped with a capillary tube. International Journal of Refrigeration, 1984, 7, 249-255.	3.4	22
25	Development of the reference model for a residential heat pump system for cooling mode fault detection and diagnosis. Journal of Mechanical Science and Technology, 2010, 24, 1481-1489.	1.5	21
26	Rooftop air-conditioning unit performance improvement using refrigerant circuitry optimization. Applied Thermal Engineering, 2015, 83, 81-87.	6.0	21
27	Impact of classical assumptions in modelling a microchannel gas cooler. International Journal of Refrigeration, 2011, 34, 1898-1910.	3.4	16
28	An experimental and computational study of approach air distribution for a finned-tube heat exchanger. HVAC and R Research, 2011, 17, 76-85.	0.6	14
29	Effect of heat pump commissioning faults on energy use in a slab-on-grade residential house. Applied Thermal Engineering, 2015, 90, 352-361.	6.0	8
30	A Data-Clustering Technique for Fault Detection and Diagnostics in Field-Assembled Air Conditioners. International Journal of Air-Conditioning and Refrigeration, 2018, 26, 1850015.	0.7	6
31	Experimental transient performance of a heat pump equipped with a distillation column. International Journal of Refrigeration, 2007, 30, 499-505.	3.4	4
32	An experimental and computational study of approach air distribution for slanted and A-shaped finned-tube heat exchangers. HVAC and R Research, 2014, 20, 498-507.	0.6	4
33	Experimental pure fluid and binary mixture performance in a heat pump equipped with a distillation column. International Journal of Refrigeration, 2004, 27, 940-947.	3.4	1
34	A Microfabricated Flow Controller for Refrigerant Expansion. Journal of Microelectromechanical Systems, 2007, 16, 1106-1112.	2.5	0