

# Piotr A Domanski

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

2,242  
citations

279798

23  
h-index

395702

33  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1353  
citing authors

#	ARTICLE	IF	CITATIONS
1	The hunt for nonflammable refrigerant blends to replace R-134a. International Journal of Refrigeration, 2019, 104, 484-495.	3.4	87
2	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
3	Selecting HVAC systems to achieve comfortable and cost-effective residential net-zero energy buildings. Applied Energy, 2018, 212, 577-591.	10.1	101
4	Limited options for low-global-warming-potential refrigerants. Nature Communications, 2017, 8, 14476.	12.8	313
5	Refrigerant performance evaluation including effects of transport properties and optimized heat exchangers. International Journal of Refrigeration, 2017, 80, 52-65.	3.4	27
6	Low-GWP refrigerants for medium and high-pressure applications. International Journal of Refrigeration, 2017, 84, 198-209.	3.4	70
7	Effect of common faults on the performance of different types of vapor compression systems. Applied Thermal Engineering, 2016, 98, 61-72.	6.0	25
8	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
9	Rooftop air-conditioning unit performance improvement using refrigerant circuitry optimization. Applied Thermal Engineering, 2015, 83, 81-87.	6.0	21
10	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
11	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
12	Review of alternative cooling technologies. Applied Thermal Engineering, 2014, 64, 252-262.	6.0	209
13	A thermodynamic analysis of refrigerants: Possibilities and tradeoffs for Low-GWP refrigerants. International Journal of Refrigeration, 2014, 38, 80-92.	3.4	280
14	A thermodynamic analysis of refrigerants: Performance limits of the vapor compression cycle. International Journal of Refrigeration, 2014, 38, 71-79.	3.4	64
15	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
16	Impact of classical assumptions in modelling a microchannel gas cooler. International Journal of Refrigeration, 2011, 34, 1898-1910.	3.4	16
17	Residential heat pump heating performance with single faults imposed. Applied Thermal Engineering, 2011, 31, 765-771.	6.0	27
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	An improved correlation for two-phase pressure drop of R-22 and R-410A in 180° return bends. Applied Thermal Engineering, 2008, 28, 793-800.	6.0	87
21	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
22	A Microfabricated Flow Controller for Refrigerant Expansion. Journal of Microelectromechanical Systems, 2007, 16, 1106-1112.	2.5	0
23	Optimization of finned-tube condensers using an intelligent system. International Journal of Refrigeration, 2007, 30, 482-488.	3.4	38
24	Experimental transient performance of a heat pump equipped with a distillation column. International Journal of Refrigeration, 2007, 30, 499-505.	3.4	4
25	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
26	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
27	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
28	An Optimized Design of Finned-Tube Evaporators Using the Learnable Evolution Model. HVAC and R Research, 2004, 10, 201-211.	0.6	38
29	Comparative analysis of an automotive air conditioning systems operating with CO2 and R134a. International Journal of Refrigeration, 2002, 25, 19-32.	3.4	191
30	Evaluation of suction-line/liquid-line heat exchange in the refrigeration cycle. International Journal of Refrigeration, 1994, 17, 487-493.	3.4	109
31	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
32	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
33	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
34	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