

# Piotr A Domanski

## List of Publications by Year in descending order

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34  
papers

2,242  
citations

318942

23  
h-index

445137

33  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1541  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | The hunt for nonflammable refrigerant blends to replace R-134a. <i>International Journal of Refrigeration</i> , 2019, 104, 484-495.  | 1.8 | 87        |
| 2  | A Data-Clustering Technique for Fault Detection and Diagnostics in Field-Assembled Air Conditioners. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2018, 26, 1850015.     | 0.8 | 6         |
| 3  | Selecting HVAC systems to achieve comfortable and cost-effective residential net-zero energy buildings. <i>Applied Energy</i> , 2018, 212, 577-591.  | 5.1 | 101       |
| 4  | Limited options for low-global-warming-potential refrigerants. <i>Nature Communications</i> , 2017, 8, 14476.  | 5.8 | 313       |
| 5  | Refrigerant performance evaluation including effects of transport properties and optimized heat exchangers. <i>International Journal of Refrigeration</i> , 2017, 80, 52-65.                     | 1.8 | 27        |
| 6  | Low-GWP refrigerants for medium and high-pressure applications. <i>International Journal of Refrigeration</i> , 2017, 84, 198-209.   | 1.8 | 70        |
| 7  | Effect of common faults on the performance of different types of vapor compression systems. <i>Applied Thermal Engineering</i> , 2016, 98, 61-72.  | 3.0 | 25        |
| 8  | Effect of heat pump commissioning faults on energy use in a slab-on-grade residential house. <i>Applied Thermal Engineering</i> , 2015, 90, 352-361.   | 3.0 | 8         |
| 9  | Rooftop air-conditioning unit performance improvement using refrigerant circuitry optimization. <i>Applied Thermal Engineering</i> , 2015, 83, 81-87.  | 3.0 | 21        |
| 10 | An experimental and computational study of approach air distribution for slanted and A-shaped finned-tube heat exchangers. <i>HVAC and R Research</i> , 2014, 20, 498-507.                       | 0.9 | 4         |
| 11 | Normalized performance parameters for a residential heat pump in the cooling mode with single faults imposed. <i>Applied Thermal Engineering</i> , 2014, 67, 1-15.                               | 3.0 | 34        |
| 12 | Review of alternative cooling technologies. <i>Applied Thermal Engineering</i> , 2014, 64, 252-262.  | 3.0 | 209       |
| 13 | A thermodynamic analysis of refrigerants: Possibilities and tradeoffs for Low-GWP refrigerants. <i>International Journal of Refrigeration</i> , 2014, 38, 80-92.                                 | 1.8 | 280       |
| 14 | A thermodynamic analysis of refrigerants: Performance limits of the vapor compression cycle. <i>International Journal of Refrigeration</i> , 2014, 38, 71-79.                                    | 1.8 | 64        |
| 15 | An experimental and computational study of approach air distribution for a finned-tube heat exchanger. <i>HVAC and R Research</i> , 2011, 17, 76-85.   | 0.9 | 14        |
| 16 | Impact of classical assumptions in modelling a microchannel gas cooler. <i>International Journal of Refrigeration</i> , 2011, 34, 1898-1910.   | 1.8 | 16        |
| 17 | Residential heat pump heating performance with single faults imposed. <i>Applied Thermal Engineering</i> , 2011, 31, 765-771.  | 3.0 | 27        |
| 18 | Development of the reference model for a residential heat pump system for cooling mode fault detection and diagnosis. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 1481-1489. | 0.7 | 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.                             | 3.0 | 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.                                 | 3.0 | 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.             | 1.8 | 115       |
| 22 | A Microfabricated Flow Controller for Refrigerant Expansion. Journal of Microelectromechanical Systems, 2007, 16, 1106-1112.   | 1.7 | 0         |
| 23 | Optimization of finned-tube condensers using an intelligent system. International Journal of Refrigeration, 2007, 30, 482-488.   | 1.8 | 38        |
| 24 | Experimental transient performance of a heat pump equipped with a distillation column. International Journal of Refrigeration, 2007, 30, 499-505.                            | 1.8 | 4         |
| 25 | Mass flow rate of R-410A through short tubes working near the critical point. International Journal of Refrigeration, 2005, 28, 547-553.                                     | 1.8 | 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. | 1.8 | 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.        | 1.8 | 1         |
| 28 | An Optimized Design of Finned-Tube Evaporators Using the Learnable Evolution Model. HVAC and R Research, 2004, 10, 201-211.  | 0.9 | 38        |
| 29 | Comparative analysis of an automotive air conditioning systems operating with CO2 and R134a. International Journal of Refrigeration, 2002, 25, 19-32.                        | 1.8 | 191       |
| 30 | Evaluation of suction-line/liquid-line heat exchange in the refrigeration cycle. International Journal of Refrigeration, 1994, 17, 487-493.                                  | 1.8 | 109       |
| 31 | Glide matching with binary and ternary zeotropic refrigerant mixtures Part 1. An experimental study. International Journal of Refrigeration, 1994, 17, 220-225.              | 1.8 | 45        |
| 32 | Glide matching with binary and ternary zeotropic refrigerant mixtures Part 2. A computer simulation. International Journal of Refrigeration, 1994, 17, 226-230.              | 1.8 | 27        |
| 33 | A simplified cycle simulation model for the performance rating of refrigerants and refrigerant mixtures. International Journal of Refrigeration, 1992, 15, 81-88.            | 1.8 | 59        |
| 34 | Mathematical model of an air-to-air heat pump equipped with a capillary tube. International Journal of Refrigeration, 1984, 7, 249-255.                                      | 1.8 | 22        |