Christopher R Laughman

List of Publications by Year
in descending order

13 papers	236 citations	1163117 8 h-index	1474206 9 g-index
13 all docs	13 docs citations	13 times ranked	196 citing authors

#	Article	IF	Citations
1	Detection of Rooftop Cooling Unit Faults Based on Electrical Measurements. HVAC and R Research, 2006, 12, 151-175.	0.6	46
2	A Kalman-Filter Spectral Envelope Preprocessor. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2010-2017.	4.7	41
3	A power quality prediction system. IEEE Transactions on Industrial Electronics, 2000, 47, 511-517.	7.9	28
4	Optimization of circuitry arrangements for heat exchangers using derivative-free optimization. Chemical Engineering Research and Design, 2018, 131, 16-28.	5.6	24
5	Scalable Bayesian optimization for model calibration: Case study on coupled building and HVAC dynamics. Energy and Buildings, 2021, 253, 111460.	6.7	23
6	Accelerating self-optimization control of refrigerant cycles with Bayesian optimization and adaptive moment estimation. Applied Thermal Engineering, 2021, 197, 117335.	6.0	21
7	An advanced switching moving boundary heat exchanger model with pressure drop. International Journal of Refrigeration, 2016, 65, 154-171.	3.4	20
8	Fault detection and diagnostics for non-intrusive monitoring using motor harmonics. , 2010, , .		14
9	A comparison of transient heat pump cycle models using alternative flow descriptions. Science and Technology for the Built Environment, 2015, 21, 666-680.	1.7	11
10	A two-step method for estimating the parameters of induction machine models. , 2009, , .		5
11	Approximation of Refrigerant Properties for Dynamic Vapor Compression Cycle Models. IFAC-PapersOnLine, 2018, 51, 625-630.	0.9	2
12	Improving the efficiency of residential HVAC systems using computer-based power-electronic controls. , 2008, , .		1
13	Heat Exchanger Circuitry Design by Decision Diagrams. Lecture Notes in Computer Science, 2019, , 461-471.	1.3	0