

Christian Ghiaus

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

1,079
citations

18
h-index

32
g-index

43
ext. papers

1,174
ext. citations

6.2
avg, IF

4.91
L-index

#	Paper	IF	Citations
41	Computational psychrometric analysis as a control problem: case of cooling and dehumidification systems. <i>Journal of Building Performance Simulation</i> , 2022 , 15, 21-38	2.8	
40	Dynamic Models for Energy Control of Smart Homes 2021 , 163-198		
39	A blind event-based learning algorithm for non-intrusive load disaggregation. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 129, 106834	5.1	4
38	Influence of Initial and Boundary Conditions on the Accuracy of the QUB Method to Determine the Overall Heat Loss Coefficient of a Building. <i>Energies</i> , 2020 , 13, 284	3.1	12
37	Optimization potential index (OPI): An evaluation method for performance assessment and optimization potential of chillers in HVAC plants. <i>Applied Energy</i> , 2020 , 259, 114111	10.7	2
36	Exergy performance and optimization potential of refrigeration plants in free cooling operation. <i>Energy</i> , 2020 , 209, 118464	7.9	4
35	Thermal circuits assembling and state-space extraction for modelling heat transfer in buildings. <i>Energy</i> , 2020 , 195, 117019	7.9	8
34	Error Analysis of QUB Method in Non-Ideal Conditions during the Experiment. <i>Energies</i> , 2020 , 13, 3398	3.1	2
33	Design of experiments for Quick U-building method for building energy performance measurement. <i>Journal of Building Performance Simulation</i> , 2019 , 12, 465-479	2.8	9
32	An efficient Bayesian experimental calibration of dynamic thermal models. <i>Energy</i> , 2018 , 152, 818-833	7.9	17
31	Frequency response limitation of heat flux meters. <i>Building and Environment</i> , 2017 , 114, 233-245	6.5	3
30	Study of Error Propagation in the Transformations of Dynamic Thermal Models of Buildings. <i>Journal of Control Science and Engineering</i> , 2017 , 2017, 1-15	1.2	4
29	New analytical methodologies for radiative heat transfer in enclosures based on matrix formalism and network analogy. <i>Applied Thermal Engineering</i> , 2016 , 107, 1269-1286	5.8	8
28	Thermal networks from the heat equation by using the finite element method 2016 ,		3
27	Order selection of thermal models by frequency analysis of measurements for building energy efficiency estimation. <i>Applied Energy</i> , 2015 , 139, 230-244	10.7	15
26	Physical parameters identification of walls using ARX models obtained by deduction. <i>Energy and Buildings</i> , 2015 , 108, 317-329	7	19
25	Model Predictive Control of thermal comfort as a benchmark for controller performance. <i>Automation in Construction</i> , 2014 , 43, 98-109	9.6	26

24	Gray-box identification of thermal transfer coefficients of desiccant wheels. <i>Energy and Buildings</i> , 2014 , 70, 384-397	7	4
23	Linear algebra solution to psychometric analysis of air-conditioning systems. <i>Energy</i> , 2014 , 74, 555-566	7.9	11
22	Gray-box state-space model and parameter identification of desiccant wheels. <i>Applied Thermal Engineering</i> , 2013 , 51, 742-752	5.8	6
21	Causality issue in the heat balance method for calculating the design heating and cooling load. <i>Energy</i> , 2013 , 50, 292-301	7.9	39
20	Optimization of multifunction multi-source solar systems by design of experiments. <i>Solar Energy</i> , 2012 , 86, 593-607	6.8	15
19	Optimal temperature control of intermittently heated buildings using Model Predictive Control: Part II Control algorithm. <i>Building and Environment</i> , 2012 , 51, 388-394	6.5	97
18	Optimal temperature control of intermittently heated buildings using Model Predictive Control: Part I Building modeling. <i>Building and Environment</i> , 2012 , 51, 379-387	6.5	154
17	Free-running temperature and potential for free cooling by ventilation: A case study. <i>Energy and Buildings</i> , 2011 , 43, 2705-2711	7	28
16	Calculation of optimal thermal load of intermittently heated buildings. <i>Energy and Buildings</i> , 2010 , 42, 1248-1258	7	50
15	Fast simulation of temperature distribution in air conditioned rooms by using proper orthogonal decomposition. <i>Building and Environment</i> , 2009 , 44, 280-289	6.5	49
14	Fast method to predict building heating demand based on the design of experiments. <i>Energy and Buildings</i> , 2009 , 41, 669-677	7	79
13	Grey-box identification of air-handling unit elements. <i>Control Engineering Practice</i> , 2007 , 15, 421-433	3.9	40
12	Equivalence between the load curve and the free-running temperature in energy estimating methods. <i>Energy and Buildings</i> , 2006 , 38, 429-435	7	29
11	Urban environment influence on natural ventilation potential. <i>Building and Environment</i> , 2006 , 41, 395-406	6.5	64
10	Experimental estimation of building energy performance by robust regression. <i>Energy and Buildings</i> , 2006 , 38, 582-587	7	81
9	Potential for free-cooling by ventilation. <i>Solar Energy</i> , 2006 , 80, 402-413	6.8	38
8	Modeling of water spray evaporation: Application to passive cooling of buildings. <i>Solar Energy</i> , 2006 , 80, 1540-1552	6.8	46
7	Natural Ventilation Potential of Urban Buildings. <i>International Journal of Ventilation</i> , 2005 , 4, 49-56	1.1	3

6	Linear fuzzy-discriminant analysis applied to forecast ozone concentration classes in sea-breeze regime. <i>Atmospheric Environment</i> , 2005 , 39, 4691-4702	5.3	8
5	Free-running building temperature and HVAC climatic suitability. <i>Energy and Buildings</i> , 2003 , 35, 405-411	7	23
4	Optimal settings of residential oil burners. <i>Energy and Buildings</i> , 2002 , 34, 83-90	7	5
3	Fuzzy model and control of a fan-coil. <i>Energy and Buildings</i> , 2001 , 33, 545-551	7	34
2	Evaluation of the indoor temperature field using a given air velocity distribution. <i>Building and Environment</i> , 1999 , 34, 671-679	6.5	9
1	Fault diagnosis of air conditioning systems based on qualitative bond graph. <i>Energy and Buildings</i> , 1999 , 30, 221-232	7	31