

# Christian Ghiaus

## List of Publications by Citations

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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	Optimal temperature control of intermittently heated buildings using Model Predictive Control: Part I [Building modeling. <i>Building and Environment</i> , <b>2012</b> , 51, 379-387	6.5	154
40	Optimal temperature control of intermittently heated buildings using Model Predictive Control: Part II [Control algorithm. <i>Building and Environment</i> , <b>2012</b> , 51, 388-394	6.5	97
39	Experimental estimation of building energy performance by robust regression. <i>Energy and Buildings</i> , <b>2006</b> , 38, 582-587	7	81
38	Fast method to predict building heating demand based on the design of experiments. <i>Energy and Buildings</i> , <b>2009</b> , 41, 669-677	7	79
37	Urban environment influence on natural ventilation potential. <i>Building and Environment</i> , <b>2006</b> , 41, 395-406	6.5	64
36	Calculation of optimal thermal load of intermittently heated buildings. <i>Energy and Buildings</i> , <b>2010</b> , 42, 1248-1258	7	50
35	Fast simulation of temperature distribution in air conditioned rooms by using proper orthogonal decomposition. <i>Building and Environment</i> , <b>2009</b> , 44, 280-289	6.5	49
34	Modeling of water spray evaporation: Application to passive cooling of buildings. <i>Solar Energy</i> , <b>2006</b> , 80, 1540-1552	6.8	46
33	Grey-box identification of air-handling unit elements. <i>Control Engineering Practice</i> , <b>2007</b> , 15, 421-433	3.9	40
32	Causality issue in the heat balance method for calculating the design heating and cooling load. <i>Energy</i> , <b>2013</b> , 50, 292-301	7.9	39
31	Potential for free-cooling by ventilation. <i>Solar Energy</i> , <b>2006</b> , 80, 402-413	6.8	38
30	Fuzzy model and control of a fan-coil. <i>Energy and Buildings</i> , <b>2001</b> , 33, 545-551	7	34
29	Fault diagnosis of air conditioning systems based on qualitative bond graph. <i>Energy and Buildings</i> , <b>1999</b> , 30, 221-232	7	31
28	Equivalence between the load curve and the free-running temperature in energy estimating methods. <i>Energy and Buildings</i> , <b>2006</b> , 38, 429-435	7	29
27	Free-running temperature and potential for free cooling by ventilation: A case study. <i>Energy and Buildings</i> , <b>2011</b> , 43, 2705-2711	7	28
26	Model Predictive Control of thermal comfort as a benchmark for controller performance. <i>Automation in Construction</i> , <b>2014</b> , 43, 98-109	9.6	26
25	Free-running building temperature and HVAC climatic suitability. <i>Energy and Buildings</i> , <b>2003</b> , 35, 405-417	7	23

24	Physical parameters identification of walls using ARX models obtained by deduction. <i>Energy and Buildings</i> , <b>2015</b> , 108, 317-329	7	19
23	An efficient Bayesian experimental calibration of dynamic thermal models. <i>Energy</i> , <b>2018</b> , 152, 818-833	7.9	17
22	Order selection of thermal models by frequency analysis of measurements for building energy efficiency estimation. <i>Applied Energy</i> , <b>2015</b> , 139, 230-244	10.7	15
21	Optimization of multifunction multi-source solar systems by design of experiments. <i>Solar Energy</i> , <b>2012</b> , 86, 593-607	6.8	15
20	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> , <b>2020</b> , 13, 284	3.1	12
19	Linear algebra solution to psychrometric analysis of air-conditioning systems. <i>Energy</i> , <b>2014</b> , 74, 555-566	7.9	11
18	Design of experiments for Quick U-building method for building energy performance measurement. <i>Journal of Building Performance Simulation</i> , <b>2019</b> , 12, 465-479	2.8	9
17	Evaluation of the indoor temperature field using a given air velocity distribution. <i>Building and Environment</i> , <b>1999</b> , 34, 671-679	6.5	9
16	New analytical methodologies for radiative heat transfer in enclosures based on matrix formalism and network analogy. <i>Applied Thermal Engineering</i> , <b>2016</b> , 107, 1269-1286	5.8	8
15	Linear fuzzy-discriminant analysis applied to forecast ozone concentration classes in sea-breeze regime. <i>Atmospheric Environment</i> , <b>2005</b> , 39, 4691-4702	5.3	8
14	Thermal circuits assembling and state-space extraction for modelling heat transfer in buildings. <i>Energy</i> , <b>2020</b> , 195, 117019	7.9	8
13	Gray-box state-space model and parameter identification of desiccant wheels. <i>Applied Thermal Engineering</i> , <b>2013</b> , 51, 742-752	5.8	6
12	Optimal settings of residential oil burners. <i>Energy and Buildings</i> , <b>2002</b> , 34, 83-90	7	5
11	Study of Error Propagation in the Transformations of Dynamic Thermal Models of Buildings. <i>Journal of Control Science and Engineering</i> , <b>2017</b> , 2017, 1-15	1.2	4
10	Gray-box identification of thermal transfer coefficients of desiccant wheels. <i>Energy and Buildings</i> , <b>2014</b> , 70, 384-397	7	4
9	Exergy performance and optimization potential of refrigeration plants in free cooling operation. <i>Energy</i> , <b>2020</b> , 209, 118464	7.9	4
8	A blind event-based learning algorithm for non-intrusive load disaggregation. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 129, 106834	5.1	4
7	Frequency response limitation of heat flux meters. <i>Building and Environment</i> , <b>2017</b> , 114, 233-245	6.5	3

6	Natural Ventilation Potential of Urban Buildings. <i>International Journal of Ventilation</i> , <b>2005</b> , 4, 49-56	1.1	3
5	Thermal networks from the heat equation by using the finite element method <b>2016</b> ,		3
4	Optimization potential index (OPI): An evaluation method for performance assessment and optimization potential of chillers in HVAC plants. <i>Applied Energy</i> , <b>2020</b> , 259, 114111	10.7	2
3	Error Analysis of QUB Method in Non-Ideal Conditions during the Experiment. <i>Energies</i> , <b>2020</b> , 13, 3398	3.1	2
2	Dynamic Models for Energy Control of Smart Homes <b>2021</b> , 163-198		
1	Computational psychrometric analysis as a control problem: case of cooling and dehumidification systems. <i>Journal of Building Performance Simulation</i> , <b>2022</b> , 15, 21-38	2.8	