

Michal Kummert

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.

36
papers

1,591
citations

15
h-index

38
g-index

38
ext. papers

1,780
ext. citations

4.1
avg, IF

4.88
L-index

#	Paper	IF	Citations
36	Contrasting the capabilities of building energy performance simulation programs. <i>Building and Environment</i> , 2008 , 43, 661-673	6.5	906
35	Designing net-zero energy buildings for the future climate, not for the past. <i>Building and Environment</i> , 2012 , 55, 150-158	6.5	139
34	A neural network controller for hydronic heating systems of solar buildings. <i>Neural Networks</i> , 2004 , 17, 427-40	9.1	66
33	A novel approach to compare building-integrated photovoltaics/thermal air collectors to side-by-side PV modules and solar thermal collectors. <i>Solar Energy</i> , 2014 , 100, 50-65	6.8	52
32	Optimal heating control in a passive solar commercial building. <i>Solar Energy</i> , 2001 , 69, 103-116	6.8	48
31	Cost-benefit analysis of integrating BIPV-T air systems into energy-efficient homes. <i>Solar Energy</i> , 2016 , 136, 385-400	6.8	43
30	Analysis of short-term solar radiation data. <i>Solar Energy</i> , 2005 , 79, 495-504	6.8	40
29	Development and numerical validation of a new model for walls with phase change materials implemented in TRNSYS. <i>Journal of Building Performance Simulation</i> , 2017 , 10, 422-437	2.8	24
28	Thermal Behavior Mapping of a Phase Change Material Between the Heating and Cooling Enthalpy-temperature Curves. <i>Energy Procedia</i> , 2015 , 78, 225-230	2.3	23
27	Sub-hourly simulation of residential ground coupled heat pump systems. <i>Building Services Engineering Research and Technology</i> , 2008 , 29, 27-44	2.3	23
26	Financial optimization and design of hybrid ground-coupled heat pump systems. <i>Applied Thermal Engineering</i> , 2016 , 93, 72-82	5.8	22
25	Experimental assessment of a phase change material storage tank. <i>Applied Thermal Engineering</i> , 2016 , 99, 880-891	5.8	20
24	Demonstration of the new ESP-r and TRNSYS co-simulator for modelling solar buildings. <i>Energy Procedia</i> , 2012 , 30, 505-514	2.3	20
23	Influence of experimental conditions on measured thermal properties used to model phase change materials. <i>Building Simulation</i> , 2015 , 8, 637-650	3.9	18
22	Optimized control strategies for solar district heating systems. <i>Journal of Building Performance Simulation</i> , 2015 , 8, 79-96	2.8	17
21	Assessment of T-History Method Variants to Obtain Enthalpy-Temperature Curves for Phase Change Materials With Significant Subcooling. <i>Journal of Thermal Science and Engineering Applications</i> , 2015 , 7,	1.9	15
20	Comparing vertical ground heat exchanger models. <i>Journal of Building Performance Simulation</i> , 2012 , 5, 369-383	2.8	15

19	Balancing demand and supply: Linking neighborhood-level building load calculations with detailed district energy network analysis models. <i>Energy</i> , 2018 , 150, 913-925	7.9	14
18	Towards standardising market-independent indicators for quantifying energy flexibility in buildings. <i>Energy and Buildings</i> , 2020 , 220, 110027	7	13
17	Co-simulation between ESP-r and TRNSYS. <i>Journal of Building Performance Simulation</i> , 2014 , 7, 133-151	2.8	12
16	Inter-model comparison of embedded-tube radiant floor models in BPS tools. <i>Journal of Building Performance Simulation</i> , 2016 , 9, 190-209	2.8	8
15	A comparison of the UK Standard Assessment Procedure and detailed simulation of solar energy systems for dwellings. <i>Journal of Building Performance Simulation</i> , 2011 , 4, 75-90	2.8	8
14	Experimental Study to Characterize the Performance of Combined Photovoltaic/Thermal Air Collectors. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2012 , 134,	2.3	8
13	Modeling horizontal storage tanks with encapsulated phase change materials for building performance simulation. <i>Science and Technology for the Built Environment</i> , 2018 , 24, 327-342	1.8	4
12	Collection and Storage of Solar Gains Incident on the Floor in a House During the Heating Season. <i>Energy Procedia</i> , 2015 , 78, 2274-2279	2.3	4
11	Analysis of a combined photovoltaic-geothermal gas-fired absorption heat pump system in a Canadian climate. <i>Journal of Building Performance Simulation</i> , 2008 , 1, 245-256	2.8	4
10	A comparison between geothermal absorption and compression heat pumps for space conditioning. <i>International Journal of Environmental Studies</i> , 2007 , 64, 467-487	1.8	4
9	Comparing Control Strategies Using Experimental and Simulation Results: Methodology and Application to Heating Control of Passive Solar Buildings. <i>HVAC and R Research</i> , 2006 , 12, 715-737		4
8	Evaluating the impact of thermostat control strategies on the energy flexibility of residential buildings for space heating. <i>Building Simulation</i> , 2021 , 14, 1439-1452	3.9	4
7	Building-scale experimental validation of a new model for walls with phase change materials. <i>Science and Technology for the Built Environment</i> , 2017 , 23, 1049-1062	1.8	3
6	Above-floor tube-and-plate radiant floor model development and validation. <i>Journal of Building Performance Simulation</i> , 2018 , 11, 449-469	2.8	3
5	Discriminant analysis classification of residential electricity smart meter data. <i>Energy and Buildings</i> , 2022 , 258, 111823	7	2
4	Effects of controls and floor construction of radiant floor heating systems for residential application with high variability of solar gains. <i>Science and Technology for the Built Environment</i> , 2020 , 26, 524-540	1.8	2
3	Modeling of a portable electric spa: Model development, experimental validation and application to winter demand response. <i>Applied Thermal Engineering</i> , 2017 , 111, 183-192	5.8	1
2	Development of a stochastic virtual smart meter data set for a residential building stock □ methodology and sample data. <i>Journal of Building Performance Simulation</i> , 2020 , 13, 583-605	2.8	1

- 1 An archetype-based energy modelling approach for a remote, subarctic community. *Journal of Building Performance Simulation*, **2021**, 14, 666-687

2.8