

# Michael Kummert

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

2,063  
citations

394390

19  
h-index

330122

37  
g-index

38  
all docs

38  
docs citations

38  
times ranked

2153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discriminant analysis classification of residential electricity smart meter data. Energy and Buildings, 2022, 258, 111823.	6.7	9
2	Empirical modelling of variable capacity air-to-air heat pumps in <scp>trnsys</scp>. Journal of Building Performance Simulation, 2022, 15, 616-633.	2.0	1
3	Evaluating the impact of thermostat control strategies on the energy flexibility of residential buildings for space heating. Building Simulation, 2021, 14, 1439-1452.	5.6	33
4	An archetype-based energy modelling approach for a remote, subarctic community. Journal of Building Performance Simulation, 2021, 14, 666-687.	2.0	0
5	Development of a stochastic virtual smart meter data set for a residential building stock " methodology and sample data. Journal of Building Performance Simulation, 2020, 13, 583-605.	2.0	2
6	Towards standardising market-independent indicators for quantifying energy flexibility in buildings. Energy and Buildings, 2020, 220, 110027.	6.7	34
7	Effects of controls and floor construction of radiant floor heating systems for residential application with high variability of solar gains. Science and Technology for the Built Environment, 2020, 26, 524-540.	1.7	4
8	Modeling horizontal storage tanks with encapsulated phase change materials for building performance simulation. Science and Technology for the Built Environment, 2018, 24, 327-342.	1.7	7
9	Balancing demand and supply: Linking neighborhood-level building load calculations with detailed district energy network analysis models. Energy, 2018, 150, 913-925.	8.8	20
10	Above-floor tube-and-plate radiant floor model development and validation. Journal of Building Performance Simulation, 2018, 11, 449-469.	2.0	3
11	Development and numerical validation of a new model for walls with phase change materials implemented in TRNSYS. Journal of Building Performance Simulation, 2017, 10, 422-437.	2.0	33
12	Building-scale experimental validation of a new model for walls with phase change materials. Science and Technology for the Built Environment, 2017, 23, 1049-1062.	1.7	3
13	Modeling of a portable electric spa: Model development, experimental validation and application to winter demand response. Applied Thermal Engineering, 2017, 111, 183-192.	6.0	1
14	Cost-benefit analysis of integrating BIPV-T air systems into energy-efficient homes. Solar Energy, 2016, 136, 385-400.	6.1	56
15	Inter-model comparison of embedded-tube radiant floor models in BPS tools. Journal of Building Performance Simulation, 2016, 9, 190-209.	2.0	11
16	Experimental assessment of a phase change material storage tank. Applied Thermal Engineering, 2016, 99, 880-891.	6.0	25
17	Financial optimization and design of hybrid ground-coupled heat pump systems. Applied Thermal Engineering, 2016, 93, 72-82.	6.0	26
18	Thermal Behavior Mapping of a Phase Change Material Between the Heating and Cooling Enthalpy-temperature Curves. Energy Procedia, 2015, 78, 225-230.	1.8	27

#	ARTICLE	IF	CITATIONS
19	Assessment of T-History Method Variants to Obtain Enthalpy-Temperature Curves for Phase Change Materials With Significant Subcooling. Journal of Thermal Science and Engineering Applications, 2015, 7, .	1.5	19
20	Collection and Storage of Solar Gains Incident on the Floor in a House During the Heating Season. Energy Procedia, 2015, 78, 2274-2279.	1.8	6
21	Optimized control strategies for solar district heating systems. Journal of Building Performance Simulation, 2015, 8, 79-96.	2.0	20
22	Influence of experimental conditions on measured thermal properties used to model phase change materials. Building Simulation, 2015, 8, 637-650.	5.6	22
23	A novel approach to compare building-integrated photovoltaics/thermal air collectors to side-by-side PV modules and solar thermal collectors. Solar Energy, 2014, 100, 50-65.	6.1	60
24	Co-simulation between ESP-r and TRNSYS. Journal of Building Performance Simulation, 2014, 7, 133-151.	2.0	17
25	Experimental Study to Characterize the Performance of Combined Photovoltaic/Thermal Air Collectors. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.8	8
26	Demonstration of the new ESP-r and TRNSYS co-simulator for modelling solar buildings. Energy Procedia, 2012, 30, 505-514.	1.8	31
27	Comparing vertical ground heat exchanger models. Journal of Building Performance Simulation, 2012, 5, 369-383.	2.0	20
28	Designing net-zero energy buildings for the future climate, not for the past. Building and Environment, 2012, 55, 150-158.	6.9	179
29	A comparison of the UK Standard Assessment Procedure and detailed simulation of solar energy systems for dwellings. Journal of Building Performance Simulation, 2011, 4, 75-90.	2.0	10
30	Contrasting the capabilities of building energy performance simulation programs. Building and Environment, 2008, 43, 661-673.	6.9	1,152
31	Sub-hourly simulation of residential ground coupled heat pump systems. Building Services Engineering Research and Technology, 2008, 29, 27-44.	1.8	28
32	Analysis of a combined photovoltaic-geothermal gas-fired absorption heat pump system in a Canadian climate. Journal of Building Performance Simulation, 2008, 1, 245-256.	2.0	4
33	A comparison between geothermal absorption and compression heat pumps for space conditioning. International Journal of Environmental Studies, 2007, 64, 467-487.	1.6	4
34	Comparing Control Strategies Using Experimental and Simulation Results: Methodology and Application to Heating Control of Passive Solar Buildings. HVAC and R Research, 2006, 12, 715-737.	0.6	4
35	Analysis of short-term solar radiation data. Solar Energy, 2005, 79, 495-504.	6.1	57
36	A neural network controller for hydronic heating systems of solar buildings. Neural Networks, 2004, 17, 427-440.	5.9	68

#	ARTICLE	IF	CITATIONS
37	Optimal heating control in a passive solar commercial building. Solar Energy, 2001, 69, 103-116.	6.1	58