

# Borui Cui

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

654  
citations

687363

13  
h-index

794594

19  
g-index

24  
all docs

24  
docs citations

24  
times ranked

605  
citing authors

#	ARTICLE	IF	CITATIONS
1	A fast chiller power demand response control strategy for buildings connected to smart grid. Applied Energy, 2015, 137, 77-87.	10.1	103
2	A hybrid building thermal modeling approach for predicting temperatures in typical, detached, two-story houses. Applied Energy, 2019, 236, 101-116.	10.1	60
3	A novel air-conditioning system for proactive power demand response to smart grid. Energy Conversion and Management, 2015, 102, 239-246.	9.2	56
4	Sensor impacts on building and HVAC controls: A critical review for building energy performance. Advances in Applied Energy, 2021, 4, 100068.	13.2	56
5	Model-based optimal design of active cool thermal energy storage for maximal life-cycle cost saving from demand management in commercial buildings. Applied Energy, 2017, 201, 382-396.	10.1	55
6	Evaluation of a fast power demand response strategy using active and passive building cold storages for smart grid applications. Energy Conversion and Management, 2015, 102, 227-238.	9.2	54
7	Constructing large scale surrogate models from big data and artificial intelligence. Applied Energy, 2017, 202, 685-699.	10.1	48
8	Energy and exergy analyses of R513a as a R134a drop-in replacement in a vapor compression refrigeration system. International Journal of Refrigeration, 2020, 112, 348-356.	3.4	43
9	Effectiveness and life-cycle cost-benefit analysis of active cold storages for building demand management for smart grid applications. Applied Energy, 2015, 147, 523-535.	10.1	39
10	Sensor impact evaluation and verification for fault detection and diagnostics in building energy systems: A review. Advances in Applied Energy, 2021, 3, 100055.	13.2	24
11	Life-cycle cost benefit analysis and optimal design of small scale active storage system for building demand limiting. Energy, 2014, 73, 787-800.	8.8	23
12	Energy performance of a bedroom task/ambient air conditioning (TAC) system applied in different climate zones of China. Energy, 2018, 159, 724-736.	8.8	17
13	Virtual storage capability of residential buildings for sustainable smart city via model-based predictive control. Sustainable Cities and Society, 2021, 64, 102491.	10.4	17
14	Model predictive control for active insulation in building envelopes. Energy and Buildings, 2022, 267, 112108.	6.7	13
15	Energy performance enhancement of Hong Kong International Airport through chilled water system integration and control optimization. Applied Thermal Engineering, 2013, 60, 303-315.	6.0	12
16	Empower Wall: Active insulation system leveraging additive manufacturing and model predictive control. Energy Conversion and Management, 2022, 266, 115823.	9.2	10
17	Effects and Performance of a Demand Response Strategy for Active and Passive Building Cold Storage. Energy Procedia, 2014, 61, 564-567.	1.8	8
18	Probabilistic reliability assessment and case studies for predicted energy savings in residential buildings. Energy and Buildings, 2020, 209, 109658.	6.7	8

#	ARTICLE	IF	CITATIONS
19	Optimal Design of Active Cool Thermal Energy Storage Concerning Life-cycle Cost Saving for Demand Management in Non-residential Building. Energy Procedia, 2016, 103, 64-69.	1.8	2