Borui Cui

List of Publications by Year
in descending order

19	654	687363 13	794594 19
papers	citations	h-index	g-index

24	24	24	605
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Model predictive control for active insulation in building envelopes. Energy and Buildings, 2022, 267, 112108.	6.7	13
2	Empower Wall: Active insulation system leveraging additive manufacturing and model predictive control. Energy Conversion and Management, 2022, 266, 115823.	9.2	10
3	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
4	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
5	Sensor impacts on building and HVAC controls: A critical review for building energy performance. Advances in Applied Energy, 2021, 4, 100068.	13.2	56
6	Probabilistic reliability assessment and case studies for predicted energy savings in residential buildings. Energy and Buildings, 2020, 209, 109658.	6.7	8
7	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
8	A hybrid building thermal modeling approach for predicting temperatures in typical, detached, two-story houses. Applied Energy, 2019, 236, 101-116.	10.1	60
9	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
10	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
11	Constructing large scale surrogate models from big data and artificial intelligence. Applied Energy, 2017, 202, 685-699.	10.1	48
12	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
13	A novel air-conditioning system for proactive power demand response to smart grid. Energy Conversion and Management, 2015, 102, 239-246.	9.2	56
14	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
15	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
16	A fast chiller power demand response control strategy for buildings connected to smart grid. Applied Energy, 2015, 137, 77-87.	10.1	103
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	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

#	Article	IF	Citations
19	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