Afshin Afshari

List of Publications by Year
in descending order

39	1,167	489802	445137
papers	citations	18	33
		h-index	g-index

39	39	39	1349
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inference of Local Climate Zones from GIS Data, and Comparison to WUDAPT Classification and Custom-Fit Clusters. Land, 2022, 11, 747.	1.2	9
2	Improving the accuracy of simplified urban canopy models for arid regions using site-specific prior information. Urban Climate, 2021, 35, 100722.	2.4	10
3	Comparison of Urban Heat Island Intensity Estimation Methods Using Urbanized WRF in Berlin, Germany. Atmosphere, 2020, 11, 1338.	1.0	18
4	Increasing the Accuracy of Radiation Heat Transfer Estimation in a Lumped Parameter Urban Canopy Models. Energy Procedia, 2019, 158, 5181-5187.	1.8	2
5	Short-Term Load Forecasts Using LSTM Networks. Energy Procedia, 2019, 158, 2922-2927.	1.8	195
6	Validation of UWG and ENVI-Met Models in an Abu Dhabi District, Based on Site Measurements. Sustainability, 2019, 11, 4378.	1.6	44
7	A Building Retrofit and Sensitivity Analysis in an Automatically Calibrated Model Considering the Urban Heat Island Effect in Abu Dhabi, UAE. Sustainability, 2019, 11, 6905.	1.6	17
8	Evaluating approaches for district-wide energy model calibration considering the Urban Heat Island effect. Applied Energy, 2018, 215, 31-40.	5.1	24
9	Validation of Simplified Urban-Canopy Aerodynamic Parametrizations Using a Numerical Simulation of an Actual Downtown Area. Boundary-Layer Meteorology, 2018, 168, 155-187.	1.2	13
10	A data-driven analysis of building energy use with emphasis on operation and maintenance: A case study from the UAE. Journal of Cleaner Production, 2018, 192, 169-178.	4.6	48
11	Estimation of the traffic related anthropogenic heat release using BTEX measurements â€" A case study in Abu Dhabi. Urban Climate, 2018, 24, 311-325.	2.4	19
12	Optimization-aided calibration of an urban microclimate model under uncertainty. Building and Environment, 2018, 143, 390-403.	3.0	15
13	Inverse modeling of the urban energy system using hourly electricity demand and weather measurements, Part 1: Black-box model. Energy and Buildings, 2017, 157, 126-138.	3.1	19
14	A new model of urban cooling demand and heat islandâ€"application to vertical greenery systems (VGS). Energy and Buildings, 2017, 157, 204-217.	3.1	49
15	Inverse modeling of the urban energy system using hourly electricity demand and weather measurements, Part 2: Gray-box model. Energy and Buildings, 2017, 157, 139-156.	3.1	17
16	Effects of Roof-Edge Roughness on Air Temperature and Pollutant Concentration in Urban Canyons. Boundary-Layer Meteorology, 2017, 164, 249-279.	1.2	42
17	Global sensitivity analysis of an urban microclimate system under uncertainty: Design and case study. Building and Environment, 2017, 124, 153-170.	3.0	51
18	Inverse estimation of the urban heat island using district-scale building energy calibration. Energy Procedia, 2017, 143, 264-270.	1.8	2

#	Article	IF	Citations
19	Evaluation of dominant momentum transfer mechanisms across a part of the city of Abu Dhabi. Energy Procedia, 2017, 143, 526-531.	1.8	1
20	Assessment and Improvement of the Accuracy of Radiation Heat Transfer Estimation in Simplified Urban Canopy Models. Energy Procedia, 2017, 143, 532-539.	1.8	4
21	Estimation of Urban Air Temperature From a Rural Station Using Remotely Sensed Thermal Infrared Data. Energy Procedia, 2017, 143, 519-525.	1.8	7
22	Describing the urban form: morphometric indexes = Describiendo la forma urbana: Ãndices morfomÃ©tricos. Building & Management, 2017, 1, 53.	0.0	0
23	A proposal to introduce tradable energy savings certificates in the emirate of Abu Dhabi. Renewable and Sustainable Energy Reviews, 2016, 55, 1342-1351.	8.2	26
24	A new validation protocol for an urban microclimate model based on temperature measurements in a Central European city. Energy and Buildings, 2016, 114, 38-53.	3.1	5
25	Framework for Energy Efficiency White Certificates in the Emirate of Abu Dhabi. Energy Procedia, 2015, 75, 2589-2595.	1.8	5
26	Estimation of urban temperature and humidity using a lumped parameter model coupled with an EnergyPlus model. Energy and Buildings, 2015, 96, 221-235.	3.1	27
27	Short-term Forecasting of the Abu Dhabi Electricity Load Using Multiple Weather Variables. Energy Procedia, 2015, 75, 3014-3026.	1.8	60
28	Robust model-based fault diagnosis for air handling units. Energy and Buildings, 2015, 86, 698-707.	3.1	103
29	Life-Cycle Analysis of Building Retrofits at the Urban Scaleâ€"A Case Study in United Arab Emirates. Sustainability, 2014, 6, 453-473.	1.6	73
30	Handling class imbalance in customer behavior prediction. , 2014, , .		8
31	ARX model based fault detection and diagnosis for chillers using support vector machines. Energy and Buildings, 2014, 81, 287-295.	3.1	124
32	Mid-term forecasting of urban electricity load to isolate air-conditioning impact. Energy and Buildings, 2014, 80, 72-80.	3.1	25
33	Short-Term Forecasting of Temperature Driven Electricity Load Using Time Series and Neural Network Model. Journal of Clean Energy Technologies, 2014, 2, 327-331.	0.1	26
34	Sensitivity analysis of demand-side management impact on Abu-Dhabiâ€™s electricity consumption. International Journal of Smart Grid and Clean Energy, 2014, , .	0.4	0
35	Mid-Term Forecasting Model of Abu-Dhabiâ€™s Electricity Consumption Applied to Demand-Side Management Impact Assessment. , 2013, , .		0
36	Systematic comprehensive techno-economic assessment of solar cooling technologies using location-specific climate data. Applied Energy, 2010, 87, 3766-3778.	5.1	62

#	Article	IF	Citations
37	A bayesian functional approach to fuzzy system representation. Lecture Notes in Computer Science, 1995, , 223-232.	1.0	0
38	A fuzzy model-based optimal control strategy. , 1994, , .		0
39	Inverse stefan problem: Tracking of the interface position from measurements on the solid phase. International Journal for Numerical Methods in Engineering, 1992, 35, 835-851.	1.5	17