Peder Bacher

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/218157/publications.pdf

Version: 2024-02-01

37 papers	1,970 citations	516215 16 h-index	476904 29 g-index
38 all docs	38 docs citations	38 times ranked	1955 citing authors

#	Article	IF	Citations
1	Increasing the Accuracy of Hourly Multi-Output Solar Power Forecast with Physics-Informed Machine Learning. Sensors, 2022, 22, 749.	2.1	17
2	Benchmarking physics-informed machine learning-based short term PV-power forecasting tools. Energy Reports, 2022, 8, 6512-6520.	2.5	26
3	Identification of non-linear autoregressive models with exogenous inputs for room air temperature modelling. Energy and AI, 2022, 9, 100165.	5.8	7
4	Estimating Building Airtightness from Data â€“ A Case Study. E3S Web of Conferences, 2021, 246, 10004.	0.2	0
5	Non-linear Model Predictive Control for Smart Heating of Buildings. E3S Web of Conferences, 2021, 246, 09005.	0.2	4
6	Non-linear grey-box modelling for heat dynamics of buildings. Energy and Buildings, 2021, 252, 111457.	3.1	23
7	Probabilistic load forecasting considering temporal correlation: Online models for the prediction of householdsâ€™ electrical load. Applied Energy, 2021, 303, 117594.	5.1	13
8	Grey Box Modelling of Supermarket Refrigeration Room. , 2021, , .		1
9	Semi-parametric modelling of sun position dependent solar gain using B-splines in grey-box models. Solar Energy, 2020, 195, 249-258.	2.9	17
10	Short-term forecasting of CO2 emission intensity in power grids by machine learning. Applied Energy, 2020, 277, 115527.	5.1	56
11	Method for Scalable and Automatised Thermal Building Performance Documentation and Screening. Energies, 2020, 13, 3866.	1.6	16
12	Control of Heat Pumps with CO2 Emission Intensity Forecasts. Energies, 2020, 13, 2851.	1.6	22
13	Data-Driven Modelling and Optimal Control of Domestic Electric Water Heaters for Demand Response. Environmental Science and Engineering, 2020, , 77-86.	0.1	2
14	Optimal coordinated bidding of a profit-maximizing heat pump aggregator: The Dutch case. , 2020, , .		0
15	A cross-disciplinary path to healthy and energy efficient buildings. Technological Forecasting and Social Change, 2019, 142, 273-284.	6.2	10
16	A hybrid modelling method for improving estimates of the average energy-saving potential of a building stock. Energy and Buildings, 2019, 199, 287-296.	3.1	26
17	climify.org: an online solution for easy control and monitoring of the indoor environment. E3S Web of Conferences, 2019, 111, 05006.	0.2	1
18	Towards the characterization of the heat loss coefficient via on-board monitoring: Physical interpretation of ARX model coefficients. Energy and Buildings, 2019, 195, 180-194.	3.1	12

#	Article	IF	Citations
19	A Proposed Energy Management System to Overcome Intermittence of Hybrid Systems Based on Wind, Solar, and Fuel Cells. , 2018, , .		1
20	Estimating the influence of rebound effects on the energy-saving potential in building stocks. Energy and Buildings, 2018, 181, 62-74.	3.1	26
21	Semi-dispatchable generation with wind-photovoltaic-fuel cell hybrid system to mitigate frequency disturbance. Electric Power Systems Research, 2018, 165, 60-67.	2.1	6
22	Stochastic model of wind-fuel cell for a semi-dispatchable power generation. Applied Energy, 2017, 193, 139-148.	5.1	12
23	Multi-site solar power forecasting using gradient boosted regression trees. Solar Energy, 2017, 150, 423-436.	2.9	261
24	On site characterisation of the overall heat loss coefficient: Comparison of different assessment methods by a blind validation exercise on a round robin test box. Energy and Buildings, 2017, 153, 179-189.	3.1	27
25	Non-parametric method for separating domestic hot water heating spikes and space heating. Energy and Buildings, 2016, 130, 107-112.	3.1	23
26	Load forecasting of supermarket refrigeration. Applied Energy, 2016, 163, 32-40.	5.1	24
27	Characterising the Actual Thermal Performance of Buildings: Current Results of Common Exercises Performed in the Framework of the IEA EBC Annex 58-Project. Energy Procedia, 2015, 78, 3282-3287.	1.8	9
28	Short-term heat load forecasting for single family houses. Energy and Buildings, 2013, 65, 101-112.	3.1	88
29	Online load forecasting for supermarket refrigeration. , 2013, , .		2
30	A non-parametric method for correction of global radiation observations. Solar Energy, 2013, 88, 13-22.	2.9	10
31	Online short-term heat load forecasting for single family houses. , 2013, , .		12
32	Model Predictive Control for a Smart Solar Tank Based on Weather and Consumption Forecasts. Energy Procedia, 2012, 30, 270-278.	1.8	46
33	An improved dynamic test method for solar collectors. Solar Energy, 2012, 86, 1838-1848.	2.9	30
34	Identifying suitable models for the heat dynamics of buildings. Energy and Buildings, 2011, 43, 1511-1522.	3.1	464
35	Models of the Heat Dynamics of Solar Collectors for Performance Testing. , 2011, , .		1
36	Short-Term Solar Collector Power Forecasting. , 2011, , .		6

#	Article	IF	Citations
37	Online short-term solar power forecasting. Solar Energy, 2009, 83, 1772-1783.	2.9	669