

# 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	Online short-term solar power forecasting. Solar Energy, 2009, 83, 1772-1783.	2.9	669
2	Identifying suitable models for the heat dynamics of buildings. Energy and Buildings, 2011, 43, 1511-1522.	3.1	464
3	Multi-site solar power forecasting using gradient boosted regression trees. Solar Energy, 2017, 150, 423-436.	2.9	261
4	Short-term heat load forecasting for single family houses. Energy and Buildings, 2013, 65, 101-112.	3.1	88
5	Short-term forecasting of CO2 emission intensity in power grids by machine learning. Applied Energy, 2020, 277, 115527.	5.1	56
6	Model Predictive Control for a Smart Solar Tank Based on Weather and Consumption Forecasts. Energy Procedia, 2012, 30, 270-278.	1.8	46
7	An improved dynamic test method for solar collectors. Solar Energy, 2012, 86, 1838-1848.	2.9	30
8	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
9	Estimating the influence of rebound effects on the energy-saving potential in building stocks. Energy and Buildings, 2018, 181, 62-74.	3.1	26
10	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
11	Benchmarking physics-informed machine learning-based short term PV-power forecasting tools. Energy Reports, 2022, 8, 6512-6520.	2.5	26
12	Load forecasting of supermarket refrigeration. Applied Energy, 2016, 163, 32-40.	5.1	24
13	Non-parametric method for separating domestic hot water heating spikes and space heating. Energy and Buildings, 2016, 130, 107-112.	3.1	23
14	Non-linear grey-box modelling for heat dynamics of buildings. Energy and Buildings, 2021, 252, 111457.	3.1	23
15	Control of Heat Pumps with CO2 Emission Intensity Forecasts. Energies, 2020, 13, 2851.	1.6	22
16	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
17	Increasing the Accuracy of Hourly Multi-Output Solar Power Forecast with Physics-Informed Machine Learning. Sensors, 2022, 22, 749.	2.1	17
18	Method for Scalable and Automatised Thermal Building Performance Documentation and Screening. Energies, 2020, 13, 3866.	1.6	16

#	ARTICLE	IF	CITATIONS
19	Probabilistic load forecasting considering temporal correlation: Online models for the prediction of households' electrical load. <i>Applied Energy</i> , 2021, 303, 117594.	5.1	13
20	Online short-term heat load forecasting for single family houses. , 2013, , .		12
21	Stochastic model of wind-fuel cell for a semi-dispatchable power generation. <i>Applied Energy</i> , 2017, 193, 139-148.	5.1	12
22	Towards the characterization of the heat loss coefficient via on-board monitoring: Physical interpretation of ARX model coefficients. <i>Energy and Buildings</i> , 2019, 195, 180-194.	3.1	12
23	A non-parametric method for correction of global radiation observations. <i>Solar Energy</i> , 2013, 88, 13-22.	2.9	10
24	A cross-disciplinary path to healthy and energy efficient buildings. <i>Technological Forecasting and Social Change</i> , 2019, 142, 273-284.	6.2	10
25	Characterising the Actual Thermal Performance of Buildings: Current Results of Common Exercises Performed in the Framework of the IEA EBC Annex 58-Project. <i>Energy Procedia</i> , 2015, 78, 3282-3287.	1.8	9
26	Identification of non-linear autoregressive models with exogenous inputs for room air temperature modelling. <i>Energy and AI</i> , 2022, 9, 100165.	5.8	7
27	Semi-dispatchable generation with wind-photovoltaic-fuel cell hybrid system to mitigate frequency disturbance. <i>Electric Power Systems Research</i> , 2018, 165, 60-67.	2.1	6
28	Short-Term Solar Collector Power Forecasting. , 2011, , .		6
29	Non-linear Model Predictive Control for Smart Heating of Buildings. <i>E3S Web of Conferences</i> , 2021, 246, 09005.	0.2	4
30	Online load forecasting for supermarket refrigeration. , 2013, , .		2
31	Data-Driven Modelling and Optimal Control of Domestic Electric Water Heaters for Demand Response. <i>Environmental Science and Engineering</i> , 2020, , 77-86.	0.1	2
32	A Proposed Energy Management System to Overcome Intermittence of Hybrid Systems Based on Wind, Solar, and Fuel Cells. , 2018, , .		1
33	climify.org: an online solution for easy control and monitoring of the indoor environment. <i>E3S Web of Conferences</i> , 2019, 111, 05006.	0.2	1
34	Models of the Heat Dynamics of Solar Collectors for Performance Testing. , 2011, , .		1
35	Grey Box Modelling of Supermarket Refrigeration Room. , 2021, , .		1
36	Estimating Building Airtightness from Data – A Case Study. <i>E3S Web of Conferences</i> , 2021, 246, 10004.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Optimal coordinated bidding of a profit-maximizing heat pump aggregator: The Dutch case. , 2020, , .		0