

Joakim Munkhammar

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,387
citations

201674

27
h-index

276875

41
g-index

56
all docs

56
docs citations

56
times ranked

2101
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal PV-EV sizing at solar powered workplace charging stations with smart charging schemes considering self-consumption and self-sufficiency balance. <i>Applied Energy</i> , 2022, 307, 118139.	10.1	46
2	Very short term load forecasting of residential electricity consumption using the Markov-chain mixture distribution (MCM) model. <i>Applied Energy</i> , 2021, 282, 116180.	10.1	50
3	The Future of Synthetic Solar Irradiance. , 2021, , 6-1-6-28.		1
4	Established Mathematical Approaches for Synthetic Solar Irradiance Data Generation. , 2021, , 1-34.		2
5	Post-processing in solar forecasting: Ten overarching thinking tools. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 140, 110735.	16.4	57
6	Probabilistic load flow analysis of electric vehicle smart charging in unbalanced LV distribution systems with residential photovoltaic generation. <i>Sustainable Cities and Society</i> , 2021, 72, 103043.	10.4	37
7	Combined PV&EV hosting capacity assessment for a residential LV distribution grid with smart EV charging and PV curtailment. <i>Sustainable Energy, Grids and Networks</i> , 2021, 26, 100445.	3.9	65
8	Review on power-production modeling of hybrid wind and PV power parks. <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, .	2.0	7
9	Direct forecast of solar irradiance for EV smart charging scheme to improve PV self-consumption at home. , 2021, , .		0
10	Modeling combined global, beam, and diffuse clear-sky indices with Markov-chain mixture distribution models. <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, 063503.	2.0	1
11	104.32 The Riemann zeta function as a sum of geometric series. <i>Mathematical Gazette</i> , 2020, 104, 527-530.	0.0	0
12	Estimating the spatiotemporal potential of self-consuming photovoltaic energy to charge electric vehicles in rural and urban Nordic areas. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, 046301.	2.0	8
13	Clear-sky index space-time trajectories from probabilistic solar forecasts: Comparing promising copulas. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, 026102.	2.0	7
14	Improved Photovoltaic Self-Consumption in Residential Buildings with Distributed and Centralized Smart Charging of Electric Vehicles. <i>Energies</i> , 2020, 13, 1153.	3.1	72
15	Probabilistic solar forecasting benchmarks on a standardized dataset at Folsom, California. <i>Solar Energy</i> , 2020, 206, 628-639.	6.1	32
16	Smart charging of electric vehicles considering photovoltaic power production and electricity consumption: A review. <i>ETransportation</i> , 2020, 4, 100056.	14.8	148
17	Review of probabilistic load flow approaches for power distribution systems with photovoltaic generation and electric vehicle charging. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 120, 106003.	5.5	71
18	A generative hidden Markov model of the clear-sky index. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, 043703.	2.0	12

#	ARTICLE	IF	CITATIONS
19	A spatiotemporal Markov-chain mixture distribution model of the clear-sky index. Solar Energy, 2019, 179, 398-409.	6.1	12
20	Probabilistic forecasting of high-resolution clear-sky index time-series using a Markov-chain mixture distribution model. Solar Energy, 2019, 184, 688-695.	6.1	34
21	Probabilistic forecasting of the clear-sky index using Markov-chain mixture distribution and copula models. , 2019, , .		1
22	Spatio-Temporal Downscaling of Hourly Solar Irradiance Data Using Gaussian Copulas. , 2019, , .		5
23	Photovoltaics and opportunistic electric vehicle charging in the power system – a case study on a Swedish distribution grid. IET Renewable Power Generation, 2019, 13, 710-716.	3.1	27
24	Scenario-based modelling of the potential for solar energy charging of electric vehicles in two Scandinavian cities. Energy, 2019, 168, 111-125.	8.8	26
25	Residential probabilistic load forecasting: A method using Gaussian process designed for electric load data. Applied Energy, 2018, 218, 159-172.	10.1	87
26	Probabilistic forecasting of electricity consumption, photovoltaic power generation and net demand of an individual building using Gaussian Processes. Applied Energy, 2018, 213, 195-207.	10.1	107
27	Modeling of photovoltaic power generation and electric vehicles charging on city-scale: A review. Renewable and Sustainable Energy Reviews, 2018, 89, 61-71.	16.4	81
28	Energy Management System With PV Power Forecast to Optimally Charge EVs at the Workplace. IEEE Transactions on Industrial Informatics, 2018, 14, 311-320.	11.3	159
29	Review on probabilistic forecasting of photovoltaic power production and electricity consumption. Renewable and Sustainable Energy Reviews, 2018, 81, 1484-1512.	16.4	285
30	Probabilistic clear-sky index forecasts using Gaussian process ensembles. , 2018, , .		4
31	Spatial Markov chain model for electric vehicle charging in cities using geographical information system (GIS) data. Applied Energy, 2018, 231, 1089-1099.	10.1	77
32	A Markov-chain probability distribution mixture approach to the clear-sky index. Solar Energy, 2018, 170, 174-183.	6.1	21
33	An N-state Markov-chain mixture distribution model of the clear-sky index. Solar Energy, 2018, 173, 487-495.	6.1	26
34	Probabilistic forecasting of solar power, electricity consumption and net load: Investigating the effect of seasons, aggregation and penetration on prediction intervals. Solar Energy, 2018, 171, 397-413.	6.1	57
35	A copula method for simulating correlated instantaneous solar irradiance in spatial networks. Solar Energy, 2017, 143, 10-21.	6.1	51
36	Probabilistic Load Flow for Power Grids With High PV Penetrations Using Copula-Based Modeling of Spatially Correlated Solar Irradiance. IEEE Journal of Photovoltaics, 2017, 7, 1740-1745.	2.5	40

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37	An autocorrelation-based copula model for generating realistic clear-sky index time-series. Solar Energy, 2017, 158, 9-19.	6.1	21
38	On the properties of aggregate clear-sky index distributions and an improved model for spatially correlated instantaneous solar irradiance. Solar Energy, 2017, 157, 566-580.	6.1	28
39	Autonomous electric vehicle fleet charging in cities: Optimal utility estimates and Monte Carlo simulations. , 2017, , .		9
40	Polynomial probability distribution estimation using the method of moments. PLoS ONE, 2017, 12, e0174573.	2.5	31
41	An autocorrelation-based copula model for producing realistic clear-sky index and photovoltaic power generation time-series. , 2017, , .		9
42	Correlation modeling of instantaneous solar irradiance with applications to solar engineering. Solar Energy, 2016, 133, 14-23.	6.1	23
43	On Non-Equilibrium Thermodynamics of Space-Time and Quantum Gravity. , 2016, , 287-298.		0
44	Self-consumption enhancement and peak shaving of residential photovoltaics using storage and curtailment. Energy, 2016, 112, 221-231.	8.8	152
45	On a probability distribution model combining household power consumption, electric vehicle home-charging and photovoltaic power production. Applied Energy, 2015, 142, 135-143.	10.1	77
46	Household electricity use, electric vehicle home-charging and distributed photovoltaic power production in the city of Westminster. Energy and Buildings, 2015, 86, 439-448.	6.7	44
47	A Bernoulli distribution model for plug-in electric vehicle charging based on time-use data for driving patterns. , 2014, , .		6
48	Characterizing probability density distributions for household electricity load profiles from high-resolution electricity use data. Applied Energy, 2014, 135, 382-390.	10.1	50
49	Quantifying self-consumption of on-site photovoltaic power generation in households with electric vehicle home charging. Solar Energy, 2013, 97, 208-216.	6.1	94
50	PHEV Home-Charging Model Based on Residential Activity Patterns. IEEE Transactions on Power Systems, 2013, 28, 2507-2515.	6.5	83
51	Chaos in a fractional order logistic map. Fractional Calculus and Applied Analysis, 2013, 16, 511-519.	2.2	25