Joakim Munkhammar

List of Publications by Year
in descending order

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51	2,387	201674 27	276875 41
papers	citations	h-index	g-index

56	56	56	2101
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review on probabilistic forecasting of photovoltaic power production and electricity consumption. Renewable and Sustainable Energy Reviews, 2018, 81, 1484-1512.	16.4	285
2	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
3	Self-consumption enhancement and peak shaving of residential photovoltaics using storage and curtailment. Energy, 2016, 112, 221-231.	8.8	152
4	Smart charging of electric vehicles considering photovoltaic power production and electricity consumption: A review. ETransportation, 2020, 4, 100056.	14.8	148
5	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
6	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
7	Residential probabilistic load forecasting: A method using Gaussian process designed for electric load data. Applied Energy, 2018, 218, 159-172.	10.1	87
8	PHEV Home-Charging Model Based on Residential Activity Patterns. IEEE Transactions on Power Systems, 2013, 28, 2507-2515.	6.5	83
9	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
10	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
11	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
12	Improved Photovoltaic Self-Consumption in Residential Buildings with Distributed and Centralized Smart Charging of Electric Vehicles. Energies, 2020, 13, 1153.	3.1	72
13	Review of probabilistic load flow approaches for power distribution systems with photovoltaic generation and electric vehicle charging. International Journal of Electrical Power and Energy Systems, 2020, 120, 106003.	5.5	71
14	Combined PVâ€“EV hosting capacity assessment for a residential LV distribution grid with smart EV charging and PV curtailment. Sustainable Energy, Grids and Networks, 2021, 26, 100445.	3.9	65
15	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
16	Post-processing in solar forecasting: Ten overarching thinking tools. Renewable and Sustainable Energy Reviews, 2021, 140, 110735.	16.4	57
17	A copula method for simulating correlated instantaneous solar irradiance in spatial networks. Solar Energy, 2017, 143, 10-21.	6.1	51
18	Characterizing probability density distributions for household electricity load profiles from high-resolution electricity use data. Applied Energy, 2014, 135, 382-390.	10.1	50

#	Article	IF	Citations
19	Very short term load forecasting of residential electricity consumption using the Markov-chain mixture distribution (MCM) model. Applied Energy, 2021, 282, 116180.	10.1	50
20	Optimal PV-EV sizing at solar powered workplace charging stations with smart charging schemes considering self-consumption and self-sufficiency balance. Applied Energy, 2022, 307, 118139.	10.1	46
21	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
22	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
23	Probabilistic load flow analysis of electric vehicle smart charging in unbalanced LV distribution systems with residential photovoltaic generation. Sustainable Cities and Society, 2021, 72, 103043.	10.4	37
24	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
25	Probabilistic solar forecasting benchmarks on a standardized dataset at Folsom, California. Solar Energy, 2020, 206, 628-639.	6.1	32
26	Polynomial probability distribution estimation using the method of moments. PLoS ONE, 2017, 12, e0174573.	2.5	31
27	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
28	Photovoltaics and opportunistic electric vehicle charging in the power system â€“ a case study on a Swedish distribution grid. IET Renewable Power Generation, 2019, 13, 710-716.	3.1	27
29	An N-state Markov-chain mixture distribution model of the clear-sky index. Solar Energy, 2018, 173, 487-495.	6.1	26
30	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
31	Chaos in a fractional order logistic map. Fractional Calculus and Applied Analysis, 2013, 16, 511-519.	2.2	25
32	Correlation modeling of instantaneous solar irradiance with applications to solar engineering. Solar Energy, 2016, 133, 14-23.	6.1	23
33	An autocorrelation-based copula model for generating realistic clear-sky index time-series. Solar Energy, 2017, 158, 9-19.	6.1	21
34	A Markov-chain probability distribution mixture approach to the clear-sky index. Solar Energy, 2018, 170, 174-183.	6.1	21
35	A generative hidden Markov model of the clear-sky index. Journal of Renewable and Sustainable Energy, 2019, 11, 043703.	2.0	12
36	A spatiotemporal Markov-chain mixture distribution model of the clear-sky index. Solar Energy, 2019, 179, 398-409.	6.1	12

#	Article	IF	Citations
37	Autonomous electric vehicle fleet charging in cities: Optimal utility estimates and Monte Carlo simulations. , 2017, , .		9
38	An autocorrelation-based copula model for producing realistic clear-sky index and photovoltaic power generation time-series. , 2017, , .		9
39	Estimating the spatiotemporal potential of self-consuming photovoltaic energy to charge electric vehicles in rural and urban Nordic areas. Journal of Renewable and Sustainable Energy, 2020, 12, 046301.	2.0	8
40	Clear-sky index space-time trajectories from probabilistic solar forecasts: Comparing promising copulas. Journal of Renewable and Sustainable Energy, 2020, 12, 026102.	2.0	7
41	Review on power-production modeling of hybrid wind and PV power parks. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	7
42	A Bernoulli distribution model for plug-in electric vehicle charging based on time-use data for driving patterns. , 2014, , .		6
43	Spatio-Temporal Downscaling of Hourly Solar Irradiance Data Using Gaussian Copulas. , 2019, , .		5
44	Probabilistic clear-sky index forecasts using Gaussian process ensembles. , 2018, , .		4
45	Established Mathematical Approaches for Synthetic Solar Irradiance Data Generation. , 2021, , 1-34.		2
46	Probabilistic forecasting of the clear-sky index using Markov-chain mixture distribution and copula models. , 2019, , .		1
47	The Future of Synthetic Solar Irradiance. , 2021, , 6-1-6-28.		1
48	Modeling combined global, beam, and diffuse clear-sky indices with Markov-chain mixture distribution models. Journal of Renewable and Sustainable Energy, 2021, 13, 063503.	2.0	1
49	On Non-Equilibrium Thermodynamics of Spaceâ€“Time and Quantum Gravity. , 2016, , 287-298.		0
50	104.32 The Riemann zeta function as a sum of geometric series. Mathematical Gazette, 2020, 104, 527-530.	0.0	0
51	Direct forecast of solar irradiance for EV smart charging scheme to improve PV self-consumption at home. , 2021, , .		0