

Rj Bessa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4219197/publications.pdf>

Version: 2024-02-01

96
papers

4,628
citations

109321

35
h-index

128289

60
g-index

100
all docs

100
docs citations

100
times ranked

3587
citing authors

#	ARTICLE	IF	CITATIONS
1	Wind power forecasting uncertainty and unit commitment. Applied Energy, 2011, 88, 4014-4023.	10.1	282
2	Forecasting: theory and practice. International Journal of Forecasting, 2022, 38, 705-871.	6.5	256
3	Methodologies to Determine Operating Reserves Due to Increased Wind Power. IEEE Transactions on Sustainable Energy, 2012, 3, 713-723.	8.8	238
4	Setting the Operating Reserve Using Probabilistic Wind Power Forecasts. IEEE Transactions on Power Systems, 2011, 26, 594-603.	6.5	227
5	Improving Renewable Energy Forecasting With a Grid of Numerical Weather Predictions. IEEE Transactions on Sustainable Energy, 2017, 8, 1571-1580.	8.8	189
6	Optimized Bidding of a EV Aggregation Agent in the Electricity Market. IEEE Transactions on Smart Grid, 2012, 3, 443-452.	9.0	183
7	Economic and technical management of an aggregation agent for electric vehicles: a literature survey. European Transactions on Electrical Power, 2012, 22, 334-350.	1.0	171
8	Estimating the Active and Reactive Power Flexibility Area at the TSO-DSO Interface. IEEE Transactions on Power Systems, 2018, 33, 4741-4750.	6.5	168
9	Entropy and Correntropy Against Minimum Square Error in Offline and Online Three-Day Ahead Wind Power Forecasting. IEEE Transactions on Power Systems, 2009, 24, 1657-1666.	6.5	160
10	Wind Power Trading Under Uncertainty in LMP Markets. IEEE Transactions on Power Systems, 2012, 27, 894-903.	6.5	156
11	Time-adaptive quantile-copula for wind power probabilistic forecasting. Renewable Energy, 2012, 40, 29-39.	8.9	140
12	Comparison of two new short-term wind-power forecasting systems. Renewable Energy, 2009, 34, 1848-1854.	8.9	138
13	Time Adaptive Conditional Kernel Density Estimation for Wind Power Forecasting. IEEE Transactions on Sustainable Energy, 2012, 3, 660-669.	8.8	135
14	Spatial-Temporal Solar Power Forecasting for Smart Grids. IEEE Transactions on Industrial Informatics, 2015, 11, 232-241.	11.3	129
15	Demand Dispatch and Probabilistic Wind Power Forecasting in Unit Commitment and Economic Dispatch: A Case Study of Illinois. IEEE Transactions on Sustainable Energy, 2013, 4, 250-261.	8.8	127
16	Probabilistic solar power forecasting in smart grids using distributed information. International Journal of Electrical Power and Energy Systems, 2015, 72, 16-23.	5.5	101
17	Optimization Models for EV Aggregator Participation in a Manual Reserve Market. IEEE Transactions on Power Systems, 2013, 28, 3085-3095.	6.5	99
18	The future of forecasting for renewable energy. Wiley Interdisciplinary Reviews: Energy and Environment, 2020, 9, e365.	4.1	82

#	ARTICLE	IF	CITATIONS
19	LASSO vector autoregression structures for very short-term wind power forecasting. <i>Wind Energy</i> , 2017, 20, 657-675.	4.2	77
20	Global against divided optimization for the participation of an EV aggregator in the day-ahead electricity market. Part I: Theory. <i>Electric Power Systems Research</i> , 2013, 95, 309-318.	3.6	76
21	Towards Improved Understanding of the Applicability of Uncertainty Forecasts in the Electric Power Industry. <i>Energies</i> , 2017, 10, 1402.	3.1	75
22	Active Distribution Grid Management Based on Robust AC Optimal Power Flow. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 6229-6241.	9.0	75
23	Wind Power Forecasting in U.S. Electricity Markets. <i>Electricity Journal</i> , 2010, 23, 71-82.	2.5	73
24	The role of an aggregator agent for EV in the electricity market. , 2010, , .		70
25	Handling renewable energy variability and uncertainty in power systems operation. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2014, 3, 156-178.	4.1	69
26	Optimization models for an EV aggregator selling secondary reserve in the electricity market. <i>Electric Power Systems Research</i> , 2014, 106, 36-50.	3.6	59
27	Reserve Setting and Steady-State Security Assessment Using Wind Power Uncertainty Forecast: A Case Study. <i>IEEE Transactions on Sustainable Energy</i> , 2012, 3, 827-836.	8.8	58
28	The challenges of estimating the impact of distributed energy resources flexibility on the TSO/DSO boundary node operating points. <i>Computers and Operations Research</i> , 2018, 96, 294-304.	4.0	58
29	Data-driven predictive energy optimization in a wastewater pumping station. <i>Applied Energy</i> , 2019, 252, 113423.	10.1	57
30	Big data analytics for future electricity grids. <i>Electric Power Systems Research</i> , 2020, 189, 106788.	3.6	54
31	Risk management and optimal bidding for a wind power producer. , 2010, , .		53
32	Global against divided optimization for the participation of an EV aggregator in the day-ahead electricity market. Part II: Numerical analysis. <i>Electric Power Systems Research</i> , 2013, 95, 319-329.	3.6	51
33	“Good” or “bad” wind power forecasts: a relative concept. <i>Wind Energy</i> , 2011, 14, 625-636.	4.2	49
34	Estimation of the flexibility range in the transmission-distribution boundary. , 2015, , .		49
35	An integrated approach for optimal coordination of wind power and hydro pumping storage. <i>Wind Energy</i> , 2014, 17, 829-852.	4.2	46
36	On-line quantile regression in the RKHS (Reproducing Kernel Hilbert Space) for operational probabilistic forecasting of wind power. <i>Energy</i> , 2016, 113, 355-365.	8.8	44

#	ARTICLE	IF	CITATIONS
37	Application of probabilistic wind power forecasting in electricity markets. Wind Energy, 2013, 16, 321-338.	4.2	41
38	Probabilistic Price Forecasting for Day-Ahead and Intraday Markets: Beyond the Statistical Model. Sustainability, 2017, 9, 1990.	3.2	40
39	Towards Data Markets in Renewable Energy Forecasting. IEEE Transactions on Sustainable Energy, 2021, 12, 533-542.	8.8	30
40	Unit commitment and operating reserves with probabilistic wind power forecasts. , 2011, , .		29
41	Multi-period flexibility forecast for low voltage prosumers. Energy, 2017, 141, 2251-2263.	8.8	28
42	Through the looking glass: Seeing events in power systems dynamics. International Journal of Electrical Power and Energy Systems, 2019, 106, 411-419.	5.5	21
43	Privacy-Preserving Distributed Learning for Renewable Energy Forecasting. IEEE Transactions on Sustainable Energy, 2021, 12, 1777-1787.	8.8	20
44	Quantile-copula density forecast for wind power uncertainty modeling. , 2011, , .		19
45	A critical overview of privacy-preserving approaches for collaborative forecasting. International Journal of Forecasting, 2021, 37, 322-342.	6.5	19
46	Methodologies to determine operating reserves due to increased wind power. , 2013, , .		17
47	Reactive power provision by the DSO to the TSO considering renewable energy sources uncertainty. Sustainable Energy, Grids and Networks, 2020, 22, 100333.	3.9	17
48	Operating reserve adequacy evaluation using uncertainties of wind power forecast. , 2009, , .		15
49	Forecasting conditional extreme quantiles for wind energy. Electric Power Systems Research, 2021, 190, 106636.	3.6	14
50	Models for the EV aggregation agent business. , 2011, , .		13
51	Future Trends for Big Data Application in Power Systems. , 2018, , 223-242.		13
52	Simulating Tariff Impact in Electrical Energy Consumption Profiles With Conditional Variational Autoencoders. IEEE Access, 2020, 8, 131949-131966.	4.2	12
53	Forecasting and setting power system operating reserves. , 2017, , 279-308.		10
54	Architecture Model for a Holistic and Interoperable Digital Energy Management Platform. Procedia Manufacturing, 2020, 51, 1117-1124.	1.9	10

#	ARTICLE	IF	CITATIONS
55	Forecasting issues for managing a portfolio of electric vehicles under a smart grid paradigm. , 2012, , .		9
56	Solar power forecasting in smart grids using distributed information. , 2014, , .		9
57	A hybrid short-term solar power forecasting tool. , 2015, , .		9
58	Solar power forecasting with sparse vector autoregression structures. , 2017, , .		9
59	Framework for the participation of EV aggregators in the electricity market. , 2014, , .		7
60	Probabilistic Low-Voltage State Estimation Using Analog-Search Techniques. , 2018, , .		7
61	Proactive management of distribution grids with chance-constrained linearized AC OPF. International Journal of Electrical Power and Energy Systems, 2019, 109, 332-342.	5.5	7
62	Comparison of probabilistic and deterministic approaches for setting operating reserve in systems with high penetration of wind power. , 2010, , .		6
63	From marginal to simultaneous prediction intervals of wind power. , 2015, , .		6
64	Optimization of the variable speed pump storage participation in frequency restoration reserve market. , 2016, , .		6
65	On the quality of the Gaussian copula for multi-temporal decision-making problems. , 2016, , .		6
66	Data Economy for Prosumers in a Smart Grid Ecosystem. , 2018, , .		6
67	Functional model of residential consumption elasticity under dynamic tariffs. Energy and Buildings, 2022, 255, 111663.	6.7	6
68	Scarcity events analysis in adequacy studies using CN2 rule mining. Energy and AI, 2022, 8, 100154.	10.6	6
69	Improvement in wind power forecasting based on information entropy-related concepts. , 2008, , .		5
70	Power-to-Gas potential assessment of Portugal under special consideration of LCOE. , 2015, , .		5
71	Optimized Demand Response Bidding in the Wholesale Market under Scenarios of Prices and Temperatures. , 2015, , .		5
72	Probabilistic forecasting of day-ahead electricity prices for the Iberian electricity market. , 2016, , .		5

#	ARTICLE	IF	CITATIONS
73	A <sc>decision-making</sc> experiment under wind power forecast uncertainty. Meteorological Applications, 2022, 29, .	2.1	5
74	LV state estimation and TSO's DSO cooperation tools: results of the French field tests in the evolVDSO project. CIRED - Open Access Proceedings Journal, 2017, 2017, 1883-1887.	0.1	4
75	An unsupervised approach for fault diagnosis of power transformers. Quality and Reliability Engineering International, 2021, 37, 2834-2852.	2.3	4
76	Data-Driven Anomaly Detection and Event Log Profiling of SCADA Alarms. IEEE Access, 2022, 10, 73758-73773.	4.2	4
77	Wind power forecasting, unit commitment, and electricity market operations. , 2011, , .		3
78	An ELM-AE State Estimator for real-time monitoring in poorly characterized distribution networks. , 2015, , .		3
79	On the Profitability of Variable Speed Pump-Storage-Power in Frequency Restoration Reserve. Journal of Physics: Conference Series, 2017, 813, 012010.	0.4	3
80	On the Use of Causality Inference in Designing Tariffs to Implement More Effective Behavioral Demand Response Programs. Energies, 2019, 12, 2666.	3.1	3
81	A deep learning method for forecasting residual market curves. Electric Power Systems Research, 2021, 190, 106756.	3.6	3
82	Functional Scalability and Replicability Analysis for Smart Grid Functions: The InteGrid Project Approach. Energies, 2021, 14, 5685.	3.1	3
83	How do Humans decide under Wind Power Forecast Uncertainty " an IEA Wind Task 36 Probabilistic Forecast Games and Experiments initiative. Journal of Physics: Conference Series, 2022, 2151, 012014.	0.4	3
84	A modified negative selection algorithm applied in the diagnosis of voltage disturbances in distribution electrical systems. , 2015, , .		2
85	Setting the maximum import net transfer capacity under extreme RES integration scenarios. , 2016, , .		2
86	Optimal bidding strategy for variable-speed pump storage in day-ahead and frequency restoration reserve markets. Energy Systems, 2019, 10, 273-297.	3.0	2
87	Extreme Quantiles Dynamic Line Rating Forecasts and Application on Network Operation. Energies, 2020, 13, 3090.	3.1	2
88	Conditional parametric model for sensitivity factors in LV grids: A privacy-preserving approach. Electric Power Systems Research, 2022, 211, 108316.	3.6	2
89	Information theoretic learning applied to wind power modeling. , 2010, , .		1
90	Operational Strategies for the Optimized Coordination of Wind Farms and Hydro-Pump Units. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
91	Wind power probabilistic forecast in the Reproducing Kernel Hilbert Space. , 2016, , .		1
92	Low Voltage Grid Data Visualisation with a Frame Representation and Cognitive Architecture. , 2019, , .		1
93	Using Causal Inference to Measure Residential Consumers Demand Response Elasticity. , 2019, , .		1
94	Guest Editorial for the Special Section on Advances in Renewable Energy Forecasting: Predictability, Business Models and Applications in the Power Industry. IEEE Transactions on Sustainable Energy, 2022, 13, 1166-1168.	8.8	1
95	Operational Management Algorithms for an EV Aggregator. , 2012, , .		0
96	Reliability Assessment Unit Commitment with Uncertain Wind Power. Energy Systems, 2013, , 3-20.	0.5	0