Ana Estanqueiro

List of Publications by Year
in descending order

49 papers	1,870 citations	331259 21 h-index	301761 39 g-index
53 all docs	53 docs citations	53 times ranked	1936 citing authors

#	Article	IF	Citations
1	System Impact Studies for Near 100% Renewable Energy Systems Dominated by Inverter Based Variable Generation. IEEE Transactions on Power Systems, 2022, 37, 3249-3258.	4.6	43
2	From Wind to Hybrid: A Contribution to the Optimal Design of Utility-Scale Hybrid Power Plants. Energies, 2022, 15, 2560.	1.6	8
3	C-E (curtailment – Energy share) map: An objective and quantitative measure to evaluate wind and solar curtailment. Renewable and Sustainable Energy Reviews, 2022, 160, 112212.	8.2	22
4	Model Predictive Control for Microgrid Functionalities: Review and Future Challenges. Energies, 2021, 14, 1296.	1.6	42
5	Assessment of wind and solar PV local complementarity for the hybridization of the wind power plants installed in Portugal. Journal of Cleaner Production, 2021, 319, 128728.	4.6	31
6	New electricity markets. The challenges of variable renewable energy. , 2021, , 3-20.		1
7	Optimal Planning of Isolated Power Systems with near 100% of Renewable Energy. IEEE Transactions on Power Systems, 2020, 35, 1274-1283.	4.6	17
8	Exploring Wind and Solar PV Generation Complementarity to Meet Electricity Demand. Energies, 2020, 13, 4132.	1.6	29
9	Addressing technical challenges in 100% variable inverter–based renewable energy power systems. Wiley Interdisciplinary Reviews: Energy and Environment, 2020, 9, e376.	1.9	47
10	Changing the Day-Ahead Gate Closure to Wind Power Integration: A Simulation-Based Study. Energies, 2019, 12, 2765.	1.6	7
11	Effects of regulating the European Internal Market on the integration of variable renewable energy. Wiley Interdisciplinary Reviews: Energy and Environment, 2019, 8, e346.	1.9	20
12	Participation of wind power producers in day–ahead and balancing markets: An overview and a simulation–based study. Wiley Interdisciplinary Reviews: Energy and Environment, 2019, 8, e343.	1.9	23
13	Variable Renewable Energy and Market Design: New Products and a Real-World Study. Energies, 2019, 12, 4576.	1.6	11
14	Planning of the installation of offshore renewable energies: A GIS approach of the Portuguese roadmap. Renewable Energy, 2019, 132, 1251-1262.	4.3	37
15	Hydro power flexibility for power systems with variable renewable energy sources: an IEA Task 25 collaboration. Wiley Interdisciplinary Reviews: Energy and Environment, 2017, 6, e220.	1.9	40
16	Multi-agent Wholesale Electricity Markets with High Penetrations of Variable Generation: A Case-Study on Multivariate Forecast Bidding Strategies. Communications in Computer and Information Science, 2017, , 340-349.	0.4	2
17	Wind Power Ramps Driven by Windstorms and Cyclones. Energies, 2017, 10, 1475.	1.6	6
18	Variability in large–scale wind power generation. Wind Energy, 2016, 19, 1649-1665.	1.9	41

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19	Agent-Based Simulation of Day-Ahead Energy Markets: Impact of Forecast Uncertainty and Market Closing Time on Energy Prices. , 2016, , .		9
20	Wind power producers in shorter gate closure markets and balancing markets. , 2016, , .		5
21	Wind and solar energy curtailment: A review of international experience. Renewable and Sustainable Energy Reviews, 2016, 65, 577-586.	8.2	375
22	Wind power participation in electricity markets â€" The role of wind power forecasts. , 2016, , .		4
23	A new methodology for urban wind resource assessment. Renewable Energy, 2016, 89, 598-605.	4.3	68
24	A Spatiotemporal Methodology for Deep Offshore Resource Assessment. Green Energy and Technology, 2016, , 143-160.	0.4	0
25	Integrated sizing and scheduling of wind/PV/diesel/battery isolatedÂsystems. Renewable Energy, 2015, 83, 646-657.	4.3	178
26	A method to correct the flow distortion of offshore wind data using CFD simulation and experimental wind tunnel tests. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 140, 87-94.	1.7	7
27	PV systems linked to the grid: Parameter identification with a heuristic procedure. Sustainable Energy Technologies and Assessments, 2015, 10, 29-39.	1.7	10
28	Impact of Weather Regimes on the Wind Power Ramp Forecast in Portugal. IEEE Transactions on Sustainable Energy, 2015, 6, 934-942.	5.9	41
29	The Levelized Cost of Energy (LCOE) of wave energy using GIS based analysis: The case study of Portugal. International Journal of Electrical Power and Energy Systems, 2015, 65, 21-25.	3.3	53
30	Simulation of a-Si PV system linked to the grid by DC-DC boost and two-level converter. , 2014, , .		3
31	A cyclic time-dependent Markov process to model daily patterns in wind turbine power production. Energy, 2014, 67, 557-568.	4.5	19
32	A simulation of integrated photovoltaic conversion into electric grid. Solar Energy, 2014, 110, 578-594.	2.9	12
33	Wind Resource Assessment Method for Floating Deep Offshore Wind Turbines. Engineering & Technology Reference, 2014, , .	0.1	1
34	Transmission planning for wind energy in the United States and Europe: status and prospects. Wiley Interdisciplinary Reviews: Energy and Environment, 2013, 2, 1-13.	1.9	15
35	Impact of Weather Conditions on the Windows of Opportunity for Operation of Offshore Wind Farms in Portugal. Wind Engineering, 2013, 37, 257-268.	1.1	10
36	Validation of an Offshore Wind Atlas Using the Satellite Data Available at the Coastal Regions of Portugal. Wind Engineering, 2013, 37, 321-331.	1.1	1

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37	On the use of Markov chain models for the analysis of wind power time-series. , 2012, , .		14
38	Experience and Challenges With Short-Term Balancing in European Systems With Large Share of Wind Power. IEEE Transactions on Sustainable Energy, 2012, 3, 853-861.	5.9	46
39	Energy storage for wind integration: Hydropower and other contributions. , 2012, , .		3
40	Currents of change. IEEE Power and Energy Magazine, 2011, 9, 47-59.	1.6	33
41	Integration of renewable sources in the electric system using Virtual Renewable Power Plants. , 2011, , .		3
42	Impacts of large amounts of wind power on design and operation of power systems, results of IEA collaboration. Wind Energy, 2011, 14, 179-192.	1.9	342
43	Design of a new urban wind turbine airfoil using a pressure-load inverse method. Renewable Energy, 2009, 34, 2728-2734.	4.3	40
44	A methodology for the identification of the sustainable wind potential. The Portuguese case study.. , 2009, , .		7
45	How to prepare a power system for 15% wind energy penetration: the Portuguese case study. Wind Energy, 2008, 11, 75-84.	1.9	45
46	Assessment of Power Quality Characteristics of Wind Farms. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	6
47	Barriers (and Solutions...) to Very High Wind Penetration in Power Systems. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	26
48	A Dynamic Wind Generation Model for Power Systems Studies. IEEE Transactions on Power Systems, 2007, 22, 920-928.	4.6	41
49	Weather dependent estimation of continent-wide wind power generation based on spatio-temporal clustering. Advances in Science and Research, 0, 14, 131-138.	1.0	4