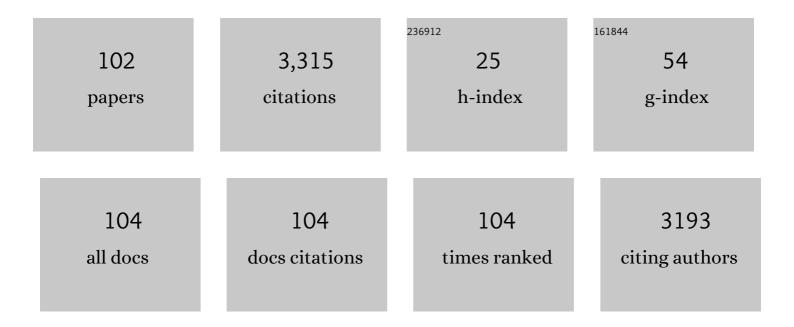
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Wind and solar energy curtailment: A review of international experience. Renewable and Sustainable Energy Reviews, 2016, 65, 577-586.	16.4	375
2	Impacts of large amounts of wind power on design and operation of power systems, results of IEA collaboration. Wind Energy, 2011, 14, 179-192.	4.2	342
3	Power systems with high renewable energy sources: A review of inertia and frequency control strategies over time. Renewable and Sustainable Energy Reviews, 2019, 115, 109369.	16.4	278
4	Methodologies to Determine Operating Reserves Due to Increased Wind Power. IEEE Transactions on Sustainable Energy, 2012, 3, 713-723.	8.8	238
5	Wind turbine reliability: A comprehensive review towards effective condition monitoring development. Applied Energy, 2018, 228, 1569-1583.	10.1	156
6	Combining feed-in tariffs and net-metering schemes to balance development in adoption of photovoltaic energy: Comparative economic assessment and policy implications for European countries. Energy Policy, 2017, 102, 440-452.	8.8	105
7	Influence of solar technology in the economic performance of PV power plants in Europe. A comprehensive analysis. Renewable and Sustainable Energy Reviews, 2018, 82, 488-501.	16.4	92
8	Probabilistic Characterization of Thermostatically Controlled Loads to Model the Impact of Demand Response Programs. IEEE Transactions on Power Systems, 2011, 26, 241-251.	6.5	89
9	Performance evaluation of large solar photovoltaic power plants in Spain. Energy Conversion and Management, 2019, 183, 515-528.	9.2	78
10	Influence of voltage dips on industrial equipment: Analysis and assessment. International Journal of Electrical Power and Energy Systems, 2012, 41, 87-95.	5.5	74
11	Generic dynamic wind turbine models for power system stability analysis: A comprehensive review. Renewable and Sustainable Energy Reviews, 2018, 81, 1939-1952.	16.4	73
12	Using SCADA Data for Wind Turbine Condition Monitoring: A Systematic Literature Review. Energies, 2020, 13, 3132.	3.1	68
13	Demand-Side Contribution to Primary Frequency Control With Wind Farm Auxiliary Control. IEEE Transactions on Power Systems, 2014, 29, 2391-2399.	6.5	59
14	A techno-economic analysis of a real wind farm repowering experience: The Malpica case. Energy Conversion and Management, 2018, 172, 182-199.	9.2	58
15	Power quality surveys of photovoltaic power plants: characterisation and analysis of grid ode requirements. IET Renewable Power Generation, 2015, 9, 466-473.	3.1	57
16	Technical impacts of high penetration levels of wind power on power system stability. Wiley Interdisciplinary Reviews: Energy and Environment, 2017, 6, e216.	4.1	52
17	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.	8.8	46
18	Variability in largeâ€scale wind power generation. Wind Energy, 2016, 19, 1649-1665.	4.2	41

#	Article	IF	CITATIONS
19	Current signature analysis to monitor DFIG wind turbine generators: A case study. Renewable Energy, 2018, 116, 5-14.	8.9	41
20	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.	4.1	40
21	Current Signature and Vibration Analyses to Diagnose an In-Service Wind Turbine Drive Train. Energies, 2018, 11, 960.	3.1	36
22	Field Validation of a Standard Type 3 Wind Turbine Model for Power System Stability, According to the Requirements Imposed by IEC 61400-27-1. IEEE Transactions on Energy Conversion, 2018, 33, 137-145.	5.2	29
23	On the participation of wind energy in response and reserve markets in Great Britain and Spain. Renewable and Sustainable Energy Reviews, 2019, 115, 109360.	16.4	28
24	An Integrated Tool for Assessing the Demand Profile Flexibility. IEEE Transactions on Power Systems, 2004, 19, 668-675.	6.5	27
25	The role of wind energy production in addressing the European renewable energy targets: The case of Spain. Journal of Cleaner Production, 2018, 196, 1198-1212.	9.3	27
26	In-Service Wind Turbine DFIG Diagnosis Using Current Signature Analysis. IEEE Transactions on Industrial Electronics, 2020, 67, 2262-2271.	7.9	27
27	Characterization and Visualization of Voltage Dips in Wind Power Installations. IEEE Transactions on Power Delivery, 2009, 24, 2071-2078.	4.3	26
28	Spectral coherence model for power fluctuations in a wind farm. Journal of Wind Engineering and Industrial Aerodynamics, 2012, 102, 14-21.	3.9	26
29	Validation of a DFIG wind turbine model submitted to two-phase voltage dips following the Spanish grid code. Renewable Energy, 2013, 57, 27-34.	8.9	26
30	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.	16.4	22
31	A New Solar Module Modeling for PV Applications Based on a Symmetrized and Shifted Gompertz Model. IEEE Transactions on Energy Conversion, 2015, 30, 51-59.	5.2	21
32	Probability Density Function Characterization for Aggregated Large-Scale Wind Power Based on Weibull Mixtures. Energies, 2016, 9, 91.	3.1	21
33	Field tests of wind turbines submitted to real voltage dips under the new Spanish grid code requirements. Wind Energy, 2007, 10, 483-495.	4.2	20
34	Behavioral modeling of grid-connected photovoltaic inverters:ÂDevelopment and assessment. Renewable Energy, 2014, 68, 686-696.	8.9	20
35	Field validation of a standard Type 3 wind turbine model implemented in DIgSILENT-PowerFactory following IEC 61400-27-1 guidelines. International Journal of Electrical Power and Energy Systems, 2020, 116, 105553.	5.5	20
36	Validation of a double fed induction generator wind turbine model and wind farm verification following the Spanish grid code. Wind Energy, 2012, 15, 645-659.	4.2	19

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37	Generic Type 3 Wind Turbine Model Based on IEC 61400-27-1: Parameter Analysis and Transient Response under Voltage Dips. Energies, 2017, 10, 1441.	3.1	19
38	Methodologies to determine operating reserves due to increased wind power. , 2013, , .		17
39	Impact of wind power curtailments on the Spanish Power System operation. , 2014, , .		17
40	Load influence on the response of AC-Contactors under power quality disturbances. International Journal of Electrical Power and Energy Systems, 2014, 63, 846-854.	5.5	17
41	Modeling Aluminum Smelter Plants Using Sliced Inverse Regression With a View Towards Load Flexibility. IEEE Transactions on Power Systems, 2011, 26, 282-293.	6.5	16
42	Validation of a Mechanical Model for Fault Ride-Through: Application to a Gamesa G52 Commercial Wind Turbine. IEEE Transactions on Energy Conversion, 2013, 28, 707-715.	5.2	16
43	The relationship between learning styles and motivation to transfer of learning in a vocational training programme. Suma Psicologica, 2016, 23, 25-32.	0.4	16
44	Field Validation of Generic Type 4 Wind Turbine Models Based on IEC and WECC Guidelines. IEEE Transactions on Energy Conversion, 2019, 34, 933-941.	5.2	16
45	Transmission planning for wind energy in the United States and Europe: status and prospects. Wiley Interdisciplinary Reviews: Energy and Environment, 2013, 2, 1-13.	4.1	15
46	Analysis of positive ramp limitation control strategies for reducing wind power fluctuations. IET Renewable Power Generation, 2013, 7, 593-602.	3.1	15
47	Validation of Generic Models for Variable Speed Operation Wind Turbines Following the Recent Guidelines Issued by IEC 61400-27. Energies, 2016, 9, 1048.	3.1	15
48	Impact of Combined Demand-Response and Wind Power Plant Participation in Frequency Control for Multi-Area Power Systems. Energies, 2019, 12, 1687.	3.1	15
49	Development and Assessment of a Wireless Sensor and Actuator Network for Heating and Cooling Loads. IEEE Transactions on Smart Grid, 2012, 3, 1192-1202.	9.0	14
50	Fast Power Reserve Emulation Strategy for VSWT Supporting Frequency Control in Multi-Area Power Systems. Energies, 2018, 11, 2775.	3.1	14
51	Generic Type 3 WT models: comparison between IEC and WECC approaches. IET Renewable Power Generation, 2019, 13, 1168-1178.	3.1	14
52	Participation of wind power plants in the Spanish power system during events. , 2012, , .		13
53	Compliance of a Generic Type 3 WT Model with the Spanish Grid Code. Energies, 2019, 12, 1631.	3.1	13
54	A New Three-Phase DPLL Frequency Estimator Based on Nonlinear Weighted Mean for Power System Disturbances. IEEE Transactions on Power Delivery, 2013, 28, 179-187.	4.3	12

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55	Vertical Wind Profile Characterization and Identification of Patterns Based on a Shape Clustering Algorithm. IEEE Access, 2019, 7, 30890-30904.	4.2	12
56	Submission of a WECC DFIG Wind Turbine Model to Spanish Operation Procedure 12.3. Energies, 2019, 12, 3749.	3.1	12
57	Wind Resource and Wind Power Generation Assessment for Education in Engineering. Sustainability, 2021, 13, 2444.	3.2	11
58	Extensive frequency response and inertia analysis under high renewable energy source integration scenarios: application to the European interconnected power system. IET Renewable Power Generation, 2020, 14, 2885-2896.	3.1	11
59	Results using Different Reactive Power Definitions for Wind Turbines Submitted to Voltage Dips: Application to the Spanish Grid Code. , 2006, , .		10
60	Application of Wireless Sensor Network to Direct Load Control in Residential Areas. , 2007, , .		10
61	Assessment of DFIG simplified model parameters using field test data. , 2012, , .		10
62	Statistical and Clustering Analysis for Disturbances: A Case Study of Voltage Dips in Wind Farms. IEEE Transactions on Power Delivery, 2016, 31, 2530-2537.	4.3	10
63	Approach to fitting parameters and clustering for characterising measured voltage dips based on twoâ€dimensional polarisation ellipses. IET Renewable Power Generation, 2017, 11, 1335-1343.	3.1	10
64	DSTRP: A new algorithm for high impedance fault detection in compensated neutral grounded M.V. power systems. European Transactions on Electrical Power, 2003, 13, 23-28.	1.0	9
65	Wind power within European grid codes: Evolution, status and outlook. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e285.	4.1	9
66	Long-Term Operational Data Analysis of an In-Service Wind Turbine DFIG. IEEE Access, 2019, 7, 17896-17906.	4.2	9
67	Application of smoothing techniques to solve the cooling and heating residential load aggregation problem. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 48-64.	0.9	8
68	Evaluation of frequency response of variable speed wind farms for reducing stability problems in weak grids. , 2012, , .		8
69	Implementation and Assessment of a Decentralized Load Frequency Control: Application to Power Systems with High Wind Energy Penetration. Energies, 2017, 10, 151.	3.1	8
70	Identification of linearised RMSâ€voltage dip patterns based on clustering in renewable plants. IET Generation, Transmission and Distribution, 2018, 12, 1256-1262.	2.5	8
71	Contribution of wind energy to balancing markets: The case of Spain. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e300.	4.1	8
72	Implementation of IEC 61400-27-1 Type 3 Model: Performance Analysis under Different Modeling Approaches. Energies, 2019, 12, 2690.	3.1	8

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73	Short-Circuit Current Contribution of Doubly-Fed Wind Turbines According to IEC and IEEE Standards. IEEE Transactions on Power Delivery, 2021, 36, 2904-2912.	4.3	8
74	Requirements for Validation of Dynamic Wind Turbine Models: An International Grid Code Review. Electronics (Switzerland), 2020, 9, 1707.	3.1	7
75	Failure rate and downtime survey of wind turbines located in Spain. IET Renewable Power Generation, 2021, 15, 225-236.	3.1	7
76	Advanced teaching method for learning power system operation based on load flow simulations. Computer Applications in Engineering Education, 0, , .	3.4	7
77	Comparison of instantaneous frequency estimation algorithms under power system disturbances. , 2012, , .		6
78	An Analysis of Decentralized Demand Response as Frequency Control Support under CriticalWind Power Oscillations. Energies, 2015, 8, 12881-12897.	3.1	6
79	Simulation of DFIG wind turbines for transient studies: An alternative approach based on symbolic–numeric computations. Journal of the Franklin Institute, 2015, 352, 1417-1439.	3.4	6
80	Fault-Ride Trough Validation of IEC 61400-27-1 Type 3 and Type 4 Models of Different Wind Turbine Manufacturers. Energies, 2019, 12, 3039.	3.1	6
81	Development and assessment of a load decomposition method applied at the distribution level. IET Generation, Transmission and Distribution, 2003, 150, 245.	1.1	5
82	Analysis of the AC-contactor electrical behavior under voltage dips. , 2010, , .		5
83	Wind Power Variability and Singular Events. , 0, , .		5
84	Evaluation of the latest Spanish grid code requirements from a PV power plant perspective. Energy Reports, 2022, 8, 8589-8604.	5.1	5
85	Characterization of Measured Voltage Dips in Wind Farms in the Light of the New Grid Codes. , 2007, , .		4
86	Power quality survey of a photovoltaic power plant. , 2013, , .		4
87	Modelling Types 1 and 2 Wind Turbines Based on IEC 61400-27-1: Transient Response under Voltage Dips. Energies, 2020, 13, 4078.	3.1	4
88	Modelling of magnetic anisotropy in the finite element method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 609-615.	0.9	3
89	Energy storage for wind integration: Hydropower and other contributions. , 2012, , .		3
90	Fault Evolution Monitoring of an In-Service Wind Turbine DFIG Using Windowed Scalogram Difference. IEEE Access, 2021, 9, 90118-90125.	4.2	3

6

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91	A measurement approach for obtaining static load model parameters in real time at the distribution level. European Transactions on Electrical Power, 2007, 17, 173-190.	1.0	2
92	<i>Ad</i> ― <i>hoc</i> analytical solution based on local linearisations for doublyâ€fed induction generator wind turbine electromechanical simulations. IET Renewable Power Generation, 2014, 8, 537-550.	3.1	2
93	Condition monitoring of a wind turbine doubly-fed induction generator through current signature analysis. Journal of Physics: Conference Series, 2017, 926, 012008.	0.4	2
94	A Review of Virtual Inertia Techniques for Renewable Energy-Based Generators. , 0, , .		2
95	Wind turbine modelling for transient analysis: Application to the Spanish Grid Code. , 2009, , .		1
96	Analysing Current Signature Data to Diagnose an In-Service Wind Turbine Generator. Journal of Physics: Conference Series, 2019, 1222, 012042.	0.4	1
97	Wind farm simulations based on a DFIG machine using parallel programming. Journal of Supercomputing, 2019, 75, 1641-1653.	3.6	1
98	The Use of Electrical Measurements of Wind Turbine Generators for Drive Train Condition Monitoring. , 0, , .		1
99	Learning Load Flow Analysis in Electric Power Systems: A Case Study in PowerFactory. , 2022, , .		1
100	Application of Wireless Sensor Network to Fluorescent Lighting Installations: A Novel Energy Efficient System. , 2011, , .		0
101	SISTEMAS DE EVALUACIÓN DEL RECURSO EÓLICO: INTEGRACIÓN DE NUEVAS SOLUCIONES BASADAS EN TECNOLOGÃA LÃ6ER. Dyna (Spain), 2012, 87, 540-548.	0.2	0
102	INTEGRACIÓN DE RECURSOS RENOVABLES Y REQUERIMIENTOS DE CONEXIÓN EN EL SISTEMA ELÉCTRICO ESPAÑOL: ANÃLISIS DE DATOS EN INSTALACIONES FOTOVOLTAICAS. Dyna (Spain), 2014, 89, 649-655.	0.2	0