

Poul Srensen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132
papers

3,397
citations

29
h-index

55
g-index

143
ext. papers

4,201
ext. citations

4
avg, IF

5.33
L-index

#	Paper	IF	Citations
132	The Value of Sector Coupling for the Development of Offshore Power Grids. <i>Energies</i> , 2022 , 15, 747	3.1	0
131	Increasing the Accuracy of Hourly Multi-Output Solar Power Forecast with Physics-Informed Machine Learning.. <i>Sensors</i> , 2022 , 22,	3.8	3
130	Validation of European-scale simulated wind speed and wind generation time series. <i>Applied Energy</i> , 2022 , 305, 117794	10.7	4
129	Benchmarking physics-informed machine learning-based short term PV-power forecasting tools. <i>Energy Reports</i> , 2022 , 8, 6512-6520	4.6	1
128	Power fluctuations in high-installation- density offshore wind fleets. <i>Wind Energy Science</i> , 2021 , 6, 461-476	3.6	2
127	Fast Frequency Support from Hybrid Wind Power Plants Using Supercapacitors. <i>Energies</i> , 2021 , 14, 3495	3.1	2
126	Test methodology for validation of multi-frequency models of renewable energy generators using small-signal perturbations. <i>IET Renewable Power Generation</i> , 2021 , 15, 3564	2.9	2
125	European and Indian Grid Codes for Utility Scale Hybrid Power Plants. <i>Energies</i> , 2021 , 14, 4335	3.1	5
124	Application of microscale wind and detailed wind power plant data in large-scale wind generation simulations. <i>Electric Power Systems Research</i> , 2021 , 190, 106638	3.5	8
123	Control of Offshore Wind Turbines Connected to Diode-Rectifier-Based HVdc Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 514-523	8.2	12
122	Generic Multi-Frequency Modelling of Converter-Connected Renewable Energy Generators Considering Frequency and Sequence Couplings. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
121	Quantifying robustness of Type 4 wind power plant as reactive power source. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 122, 106181	5.1	2
120	Combination of meteorological reanalysis data and stochastic simulation for modelling wind generation variability. <i>Renewable Energy</i> , 2020 , 159, 991-999	8.1	9
119	On Feasibility of Autonomous Frequency-Support Provision From Offshore HVDC Grids. <i>IEEE Transactions on Power Delivery</i> , 2020 , 1-1	4.3	5
118	North Sea region energy system towards 2050: integrated offshore grid and sector coupling drive offshore wind power installations. <i>Wind Energy Science</i> , 2020 , 5, 1705-1712	3.2	6
117	Generic characterization of electrical test benches for AC- and HVDC-connected wind power plants. <i>Wind Energy Science</i> , 2020 , 5, 561-575	3.2	3
116	North Sea offshore grid development: combined optimisation of grid and generation investments towards 2050. <i>IET Renewable Power Generation</i> , 2020 , 14, 1259-1267	2.9	10

115	Enhanced Wind Power Plant Control Strategy During Stressed Voltage Conditions. <i>IEEE Access</i> , 2020 , 8, 120025-120035	3.5	2
114	Optimal battery operation for revenue maximization of wind-storage hybrid power plant. <i>Electric Power Systems Research</i> , 2020 , 189, 106631	3.5	2
113	Voltage stability assessment accounting for current-limited converters. <i>Electric Power Systems Research</i> , 2020 , 189, 106772	3.5	1
112	. <i>IEEE Power and Energy Magazine</i> , 2019 , 17, 79-88	2.4	2
111	Effects of Wind Power Technology Development on Large-scale VRE Generation Variability 2019 ,		5
110	Inertia Dependent Droop Based Frequency Containment Process. <i>Energies</i> , 2019 , 12, 1648	3.1	5
109	Reactive Power Capability Model of Wind Power Plant Using Aggregated Wind Power Collection System. <i>Energies</i> , 2019 , 12, 1607	3.1	8
108	Technical Impacts of High Penetration Levels of Wind Power on Power System Stability 2019 , 47-65		1
107	Fault-Ride Trough Validation of IEC 61400-27-1 Type 3 and Type 4 Models of Different Wind Turbine Manufacturers. <i>Energies</i> , 2019 , 12, 3039	3.1	6
106	Impact of Primary Frequency Control of Offshore HVDC Grids on Interarea Modes of Power Systems. <i>Energies</i> , 2019 , 12, 3879	3.1	2
105	Coordinated Control of HVDC and HVAC Power Transmission Systems Integrating a Large Offshore Wind Farm. <i>Energies</i> , 2019 , 12, 3435	3.1	5
104	Possible power of down-regulated offshore wind power plants: The PossPOW algorithm. <i>Wind Energy</i> , 2019 , 22, 205-218	3.4	6
103	Using time series simulation tools for assessing the effects of variable renewable energy generation on power and energy systems. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2019 , 8, e329	4.7	23
102	. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1889-1898	8.2	19
101	Generic dynamic wind turbine models for power system stability analysis: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 1939-1952	16.2	51
100	High dimensional dependence in power systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 94, 197-213	16.2	11
99	Wind power variability and power system reserves in South Africa. <i>Journal of Energy in Southern Africa</i> , 2018 , 29, 59-71	1.8	2
98	Simulation of transcontinental wind and solar PV generation time series. <i>Renewable Energy</i> , 2018 , 118, 425-436	8.1	31

97	Large-scale wind generation simulations: From the analysis of current installations to modelling the future. <i>Journal of Physics: Conference Series</i> , 2018 , 1102, 012034	0.3	
96	Statistical Analysis of Offshore Wind and other VRE Generation to Estimate the Variability in Future Residual Load. <i>Journal of Physics: Conference Series</i> , 2018 , 1104, 012011	0.3	6
95	Real-time impact of power balancing on power system operation with large scale integration of wind power. <i>Journal of Modern Power Systems and Clean Energy</i> , 2017 , 5, 202-210	4	9
94	Improved Load-Shedding Scheme Considering Distributed Generation. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 515-524	4.3	27
93	Technical impacts of high penetration levels of wind power on power system stability. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2017 , 6, e216	4.7	33
92	Power-Smoothing Scheme of a DFIG Using the Adaptive Gain Depending on the Rotor Speed and Frequency Deviation. <i>Energies</i> , 2017 , 10, 555	3.1	7
91	Asymmetrical fault analysis at the offshore network of HVDC connected wind power plants 2017 ,		5
90	2017 ,		4
89	Adequacy of frequency reserves for high wind power generation. <i>IET Renewable Power Generation</i> , 2017 , 11, 1286-1294	2.9	10
88	Phase angle calculation dynamics of type-4 wind turbines in rms simulations during severe voltage dips. <i>IET Renewable Power Generation</i> , 2016 , 10, 1069-1186	2.9	2
87	Utilisation of real-scale renewable energy test facility for validation of generic wind turbine and wind power plant controller models. <i>IET Renewable Power Generation</i> , 2016 , 10, 1123-1131	2.9	6
86	Compensating active power imbalances in power system with large-scale wind power penetration. <i>Journal of Modern Power Systems and Clean Energy</i> , 2016 , 4, 229-237	4	10
85	Modeling of the dynamics of wind to power conversion including high wind speed behavior. <i>Wind Energy</i> , 2016 , 19, 923-938	3.4	5
84	Releasable Kinetic Energy-Based Inertial Control of a DFIG Wind Power Plant. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 279-288	8.2	105
83	Dynamic DroopBased Inertial Control of a Doubly-Fed Induction Generator. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 924-933	8.2	74
82	. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 829-838	4.3	40
81	Long-term research challenges in wind energy & research agenda by the European Academy of Wind Energy. <i>Wind Energy Science</i> , 2016 , 1, 1-39	3.2	103
80	Cluster Control of Offshore Wind Power Plants Connected to a Common HVDC Station. <i>Energy Procedia</i> , 2016 , 94, 232-240	2.3	3

79	Field Validation of IEC 61400-27-1 Wind Generation Type 3 Model With Plant Power Factor Controller. <i>IEEE Transactions on Energy Conversion</i> , 2016 , 31, 1170-1178	5.4	28
78	Understanding IEC standard wind turbine models using SimPowerSystems. <i>Wind Engineering</i> , 2016 , 40, 212-227	1.2	10
77	Coordinated fast primary frequency control from offshore wind power plants in MTDC system 2016 ,		1
76	Wind and solar energy curtailment: A review of international experience. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 65, 577-586	16.2	228
75	Turbine Control strategies for wind farm power optimization 2015 ,		18
74	Primary reserve studies for high wind power penetrated systems 2015 ,		3
73	Offshore Wind Farms 2015 , 1-46		1
72	Aggregated wind power plant models consisting of IEC wind turbine models 2015 ,		3
71	Control of VSC-HVDC in offshore AC islands with wind power plants: Comparison of two alternatives 2015 ,		4
70	Implementation and validation of IEC generic type 1A wind turbine generator model. <i>International Transactions on Electrical Energy Systems</i> , 2015 , 25, 1804-1813	2.2	17
69	Adequacy of operating reserves for power systems in future european wind power scenarios 2015 ,		5
68	Unbalanced voltage faults: the impact on structural loads of doubly fed asynchronous generator wind turbines. <i>Wind Energy</i> , 2014 , 17, 1123-1135	3.4	8
67	Estimation of the Possible Power of a Wind Farm. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 6782-6787		2
66	Wind power integration into the automatic generation control of power systems with large-scale wind power. <i>Journal of Engineering</i> , 2014 , 2014, 538-545	0.7	11
65	Status and Prospects of European Renewable-Based Energy Systems Facilitated by Smart Grid Technologies. <i>Green Energy and Technology</i> , 2014 , 47-57	0.6	0
64	Code Shift: Grid Specifications and Dynamic Wind Turbine Models. <i>IEEE Power and Energy Magazine</i> , 2013 , 11, 72-82	2.4	31
63	Implementation of Electrical Simulation Model for IEC Standard Type-3A Generator 2013 ,		4
62	Influence of current limitation on voltage stability with Voltage Sourced Converter HVDC 2013 ,		6

61	Offshore variability in critical weather conditions in large-scale wind based Danish power system 2013,		2
60	Wind Power Fluctuation Smoothing Controller Based on Risk Assessment of Grid Frequency Deviation in an Isolated System. <i>IEEE Transactions on Sustainable Energy</i> , 2013 , 4, 379-392	8.2	39
59	Cross-Spectra Over the Sea from Observations and Mesoscale Modelling. <i>Boundary-Layer Meteorology</i> , 2013 , 146, 297-318	3.4	10
58	Modular structure of wind turbine models in IEC 61400-27-1 2013,		24
57	Spectral coherence model for power fluctuations in a wind farm. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012 , 102, 14-21	3.7	20
56	Method for Assessing Grid Frequency Deviation Due to Wind Power Fluctuation Based on Time-Frequency Transformation <i>IEEE Transactions on Sustainable Energy</i> , 2012 , 3, 65-73	8.2	16
55	Frequency Control in Autonomous Power Systems With High Wind Power Penetration. <i>IEEE Transactions on Sustainable Energy</i> , 2012 , 3, 189-199	8.2	253
54	Fast simulation approaches for power fluctuation model of wind farm based on frequency domain 2012,		2
53	Generic models of wind turbine generators for advanced applications in a VSC-based offshore HVDC network 2012,		7
52	Virtual inertia for variable speed wind turbines. <i>Wind Energy</i> , 2012 , n/a-n/a	3.4	9
51	Wind Farms in Weak Power Networks in India 2012, 739-752		
50	. <i>IEEE Transactions on Energy Conversion</i> , 2011 , 26, 373-378	5.4	24
49	Impact of fault ride-through requirements on fixed-speed wind turbine structural loads. <i>Wind Energy</i> , 2011 , 14, 1-11	3.4	8
48	Impact of wind power in autonomous power systems-power fluctuations-modelling and control issues. <i>Wind Energy</i> , 2011 , 14, 133-153	3.4	12
47	Managing critical weather conditions in a large-scale wind based European power system The twenties project 2011,		7
46	Dynamic security issues in autonomous power systems with increasing wind power penetration. <i>Electric Power Systems Research</i> , 2011 , 81, 880-887	3.5	10
45	Wind farms' spatial distribution effect on power system reserves requirements 2010,		7
44	Illustration of Modern Wind Turbine Ancillary Services. <i>Energies</i> , 2010 , 3, 1290-1302	3.1	27

43	Frequency modeling of wind power fluctuation and the application on power systems 2010 ,		12
42	Variable speed wind turbines capability for temporary over-production 2009 ,		65
41	Wind energy development in China (WED) The Danish-Chinese collaboration project 2009 ,		3
40	Testing of a controller for an ETO-based STATCOM through controller hardware-in-the-loop simulation 2009 ,		6
39	Wind model for low frequency power fluctuations in offshore wind farms. <i>Wind Energy</i> , 2009 , 13, 471-483	3.4	22
38	Grid integration impacts on wind turbine design and development 2009 ,		4
37	Model of a synthetic wind speed time series generator. <i>Wind Energy</i> , 2008 , 11, 193-209	3.4	42
36	Modelling of power fluctuations from large offshore wind farms. <i>Wind Energy</i> , 2008 , 11, 29-43	3.4	86
35	Wind turbine measurement technique in open laboratory for educational purposes. <i>Wind Energy</i> , 2008 , 11, 281-295	3.4	5
34	Regime-switching modelling of the fluctuations of offshore wind generation. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2008 , 96, 2327-2347	3.7	64
33	Simulations of wind power integration with complementary power system planning tools. <i>Electric Power Systems Research</i> , 2008 , 78, 1069-1079	3.5	12
32	European Balancing Act. <i>IEEE Power and Energy Magazine</i> , 2007 , 5, 90-103	2.4	35
31	Power Fluctuations From Large Wind Farms. <i>IEEE Transactions on Power Systems</i> , 2007 , 22, 958-965	7	186
30	Simulation of the impact of wind power on the transient fault behavior of the Nordic power system. <i>Electric Power Systems Research</i> , 2007 , 77, 135-144	3.5	43
29	A fuzzy logic pitch angle controller for power system stabilization. <i>Wind Energy</i> , 2007 , 10, 19-30	3.4	30
28	Co-ordinated voltage control of DFIG wind turbines in uninterrupted operation during grid faults. <i>Wind Energy</i> , 2007 , 10, 51-68	3.4	65
27	Reactive power capability of a wind turbine with doubly fed induction generator. <i>Wind Energy</i> , 2007 , 10, 379-394	3.4	108
26	Design of a wind turbine pitch angle controller for power system stabilisation. <i>Renewable Energy</i> , 2007 , 32, 2334-2349	8.1	38

25	Power Quality Issues on Wind Power Installations in Denmark. <i>IEEE Power Engineering Society General Meeting, 2007,</i>		18
24	Windfarm Generation Assessment for Reliability Analysis of Power Systems. <i>Wind Engineering, 2007</i> , 31, 383-400	1.2	5
23	Aspects of Relevance in Offshore Wind Farm Reliability Assessment. <i>IEEE Transactions on Energy Conversion, 2007, 22,</i> 159-166	5.4	68
22	Power System Operation with Large Scale Wind Power Integration 2007,		9
21	Wind Farm Power Fluctuations 2007, 139-145		4
20	Centralised power control of wind farm with doubly fed induction generators. <i>Renewable Energy, 2006, 31,</i> 935-951	8.1	309
19	Modeling and Control of VSC Based DC Connection for Active Stall Wind Farms to Grid. <i>IEEJ Transactions on Industry Applications, 2006,</i> 126, 622-629	0.2	5
18	Reduced models of doubly fed induction generator system for wind turbine simulations. <i>Wind Energy, 2006, 9,</i> 299-311	3.4	12
17	Grid support of a wind farm with active stall wind turbines and AC grid connection. <i>Wind Energy, 2006, 9,</i> 341-359	3.4	13
16	Robust multi-model control of an autonomous wind power system. <i>Wind Energy, 2006, 9,</i> 399-419	3.4	33
15	Wind Farms in Weak Power Networks in India 2005, 331-348		1
14	The Relevance of the Dynamic Stall Effect for Transient Fault Operations of Active-Stall Wind Turbines. <i>Wind Engineering, 2005, 29,</i> 353-364	1.2	4
13	Simulation Model of a Transient Fault Controller for an Active-Stall Wind Turbine. <i>Wind Engineering, 2005, 29,</i> 33-47	1.2	9
12	Simulation Model of an Active-Stall Fixed-Speed Wind Turbine Controller. <i>Wind Engineering, 2004,</i> 28, 177-195	1.2	17
11	Control of Variable Speed Wind Turbines with Doubly-Fed Induction Generators. <i>Wind Engineering, 2004, 28,</i> 411-432	1.2	103
10	Initialisation of Grid-Connected Wind Turbine Models in Power-System Simulations. <i>Wind Engineering, 2003, 27,</i> 21-38	1.2	17
9	Wind models for simulation of power fluctuations from wind farms. <i>Journal of Wind Engineering and Industrial Aerodynamics, 2002, 90,</i> 1381-1402	3.7	170
8	Dynamic Modelling of Wind Farm Grid Interaction. <i>Wind Engineering, 2002, 26,</i> 191-210	1.2	49

7	Wind farms connected to weak grids in India. <i>Wind Energy</i> , 2001 , 4, 137-149	3.4	24
6	Invited Lectures. <i>Wind Engineers JAWE</i> , 2001 , 2001, 9-72	0	3
5	Fatigue loads for wind turbines operating in wakes. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1999 , 80, 121-136	3.7	98
4	A Complex Frequency Domain Model of Wind Turbine Structures. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1995 , 117, 311-317	2.3	8
3	A new simulation platform to model, optimize and design wind turbines		9
2	Wind farm modelling for power quality		15
1	The Influence of Large-Scale Wind Farm Wake Losses and Sector Coupling on the Development of Offshore Grids. <i>SSRN Electronic Journal</i> ,	1	1