

Mohsen Soltani

List of Publications by Year in descending order

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103
papers

2,048
citations

331670

21
h-index

276875

41
g-index

104
all docs

104
docs citations

104
times ranked

1775
citing authors

#	ARTICLE	IF	CITATIONS
1	Sliding Mode Control of PMSG Wind Turbine Based on Enhanced Exponential Reaching Law. IEEE Transactions on Industrial Electronics, 2016, 63, 6148-6159.	7.9	204
2	Estimation of Rotor Effective Wind Speed: A Comparison. IEEE Transactions on Control Systems Technology, 2013, 21, 1155-1167.	5.2	153
3	Protection in DC microgrids: a comparative review. IET Smart Grid, 2018, 1, 66-75.	2.2	140
4	Optimized Placement of Wind Turbines in Large-Scale Offshore Wind Farm Using Particle Swarm Optimization Algorithm. IEEE Transactions on Sustainable Energy, 2015, 6, 1272-1282.	8.8	128
5	Prediction models for wind speed at turbine locations in a wind farm. Wind Energy, 2011, 14, 877-894.	4.2	93
6	A Reactive Power Dispatch Strategy With Loss Minimization for a DFIG-Based Wind Farm. IEEE Transactions on Sustainable Energy, 2016, 7, 914-923.	8.8	86
7	Combined optimization for offshore wind turbine micro siting. Applied Energy, 2017, 189, 271-282.	10.1	83
8	Predictive Home Energy Management System With Photovoltaic Array, Heat Pump, and Plug-In Electric Vehicle. IEEE Transactions on Industrial Informatics, 2021, 17, 430-440.	11.3	72
9	Load reduction of wind turbines using receding horizon control. , 2011, , .		60
10	A Comparison Study on Stochastic Modeling Methods for Home Energy Management Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 4799-4808.	11.3	54
11	Optimization of offshore wind farm layout in restricted zones. Energy, 2016, 113, 487-496.	8.8	53
12	Offshore Wind Farm Layout Design Considering Optimized Power Dispatch Strategy. IEEE Transactions on Sustainable Energy, 2017, 8, 638-647.	8.8	51
13	Localized Protection of Radial DC Microgrids With High Penetration of Constant Power Loads. IEEE Systems Journal, 2021, 15, 4145-4156.	4.6	42
14	Optimized Power Dispatch in Wind Farms for Power Maximizing Considering Fatigue Loads. IEEE Transactions on Sustainable Energy, 2018, 9, 862-871.	8.8	41
15	Fatigue damage estimation and data-based control for wind turbines. IET Control Theory and Applications, 2015, 9, 1042-1050.	2.1	39
16	High-Voltage Gain Quasi-SEPIC DC-DC Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1243-1257.	5.4	39
17	An MPC approach to individual pitch control of wind turbines using uncertain LIDAR measurements. , 2013, , .		31
18	Reliable Control of Ship-Mounted Satellite Tracking Antenna. IEEE Transactions on Control Systems Technology, 2011, 19, 221-228.	5.2	29

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19	Optimised power dispatch strategy for offshore wind farms. IET Renewable Power Generation, 2016, 10, 399-409.	3.1	29
20	Model based active power control of a wind turbine. , 2014, , .		27
21	Family of step-up DC/DC converters with fast dynamic response for low power applications. IET Power Electronics, 2016, 9, 2665-2673.	2.1	27
22	A Fuse Saving Scheme for DC Microgrids With High Penetration of Renewable Energy Resources. IEEE Access, 2020, 8, 137407-137417.	4.2	25
23	Wind Turbine Power Curve Design for Optimal Power Generation in Wind Farms Considering Wake Effect. Energies, 2017, 10, 395.	3.1	24
24	An Attitude Heading and Reference System for Marine Satellite Tracking Antenna. IEEE Transactions on Industrial Electronics, 2017, 64, 3095-3104.	7.9	23
25	Application of Boost Converter to Increase the Speed Range of Dual-Stator Winding Induction Generator in Wind Power Systems. IEEE Transactions on Power Electronics, 2018, 33, 9599-9610.	7.9	22
26	Source-Side Virtual RC Damper-Based Stabilization Technique for Cascaded Systems in DC Microgrids. IEEE Transactions on Energy Conversion, 2021, 36, 1883-1895.	5.2	21
27	Locating high-impedance faults in DC microgrid clusters using support vector machines. Applied Energy, 2022, 308, 118338.	10.1	21
28	A novel single switch transformerless quadratic DC/DC buck-boost converter. , 2017, , .		20
29	Local Fault Location in Meshed DC Microgrids Based On Parameter Estimation Technique. IEEE Systems Journal, 2022, 16, 1606-1615.	4.6	19
30	Mathematical morphology-based local fault detection in DC Microgrid clusters. Electric Power Systems Research, 2021, 192, 106981.	3.6	17
31	Model predictive control of wind turbines using uncertain LIDAR measurements. , 2013, , .		16
32	A novel quadratic buck-boost DC-DC converter without floating gate-driver. , 2016, , .		16
33	Review of Reactive Power Dispatch Strategies for Loss Minimization in a DFIG-based Wind Farm. Energies, 2017, 10, 856.	3.1	15
34	Active power dispatch method for a wind farm central controller considering wake effect. , 2014, , .		14
35	Experimental Validation of Aero-Hydro-Servo-Elastic Models of a Scaled Floating Offshore Wind Turbine. Applied Sciences (Switzerland), 2019, 9, 1244.	2.5	14
36	Optimal tuning of multivariable disturbance observer based control for flicker mitigation using individual pitch control of wind turbine. IET Renewable Power Generation, 2017, 11, 1121-1128.	3.1	13

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37	Early Detection of Coil Failure in Solenoid Valves. IEEE/ASME Transactions on Mechatronics, 2020, 25, 683-693.	5.8	13
38	DC Fault Current Analyzing, Limiting, and Clearing in DC Microgrid Clusters. Energies, 2021, 14, 6337.	3.1	12
39	Signal-Based Gas Leakage Detection for Fluid Power Accumulators in Wind Turbines. Energies, 2017, 10, 331.	3.1	10
40	Fractional Order Modelling of DC-DC Boost Converters. , 2019, , .		10
41	Model Predictive Control of Buoy Type Wave Energy Converter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11159-11164.	0.4	9
42	Reliability based design of fluid power pitch systems for wind turbines. Wind Energy, 2017, 20, 1097-1110.	4.2	9
43	Profit assessment of home energy management system for buildings with A-G energy labels. Applied Energy, 2020, 277, 115618.	10.1	9
44	EMD/HTâ€based local fault detection in DC microgrid clusters. IET Smart Grid, 2022, 5, 177-188.	2.2	9
45	DAC with LQR control design for pitch regulated variable speed wind turbine. , 2014, , .		8
46	DAC to mitigate the effect of periodic disturbances on drive train using collective pitch for variable speed wind turbine. , 2015, , .		8
47	A Novel Active Stabilizer Method for DC/DC Power Converter Systems Feeding Constant Power Loads. , 2019, , .		8
48	Preview-based asymmetric load reduction of wind turbines. , 2012, , .		7
49	A MEMS-based Adaptive AHRS for Marine Satellite Tracking Antennaâ€—â€This work was supported by Innovation Fund Denmark under the project STAR2 COM (Jnr.060-2013-3).. IFAC-PapersOnLine, 2015, 48, 121-126.	0.9	7
50	Localized Fault Protection in the DC Microgrids with Ring Configuration. , 2019, , .		7
51	Optimal Power Dispatch of an Offshore Wind Farm under Generator Fault. Applied Sciences (Switzerland), 2019, 9, 1184.	2.5	7
52	Wind Farm Power Optimization and Fault Ride-Through under Inter-Turn Short-Circuit Fault. Energies, 2021, 14, 3072.	3.1	7
53	Robust FDI for a ship-mounted satellite tracking antenna: A nonlinear approach. , 2008, , .		6
54	Wind farm active power dispatch for output power maximizing based on a wind turbine control strategy for load minimizing. , 2015, , .		6

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55	Novel T-Z source inverter with high voltage gain and reduced transformer turn ratio. , 2015, , .		6
56	Fault detection and isolation for wind turbine electric pitch system. , 2017, , .		6
57	Active power optimisation for wind farms under generator interâ€turn shortâ€circuit fault. IET Renewable Power Generation, 2020, 14, 2079-2088.	3.1	6
58	Overcoming the Detectability Obstacle in Adaptive Output Feedback Control of DCâ€DC Boost Converter With Unknown Load. IEEE Transactions on Control Systems Technology, 2021, 29, 2678-2686.	5.2	6
59	Reliable Fluid Power Pitch Systems: A Review of State of the Art for Design and Reliability Evaluation of Fluid Power Systems. , 2015, , .		5
60	A novel energy yields calculation method for irregular wind farm layout. , 2015, , .		5
61	Intelligent power control of DC microgrid. , 2017, , .		5
62	Comparison of loads for wind turbine down-regulation strategies. , 2017, , .		5
63	Design and Implementation of Attitude Stabilization System for Marine Satellite Tracking Antenna. Electronics (Switzerland), 2018, 7, 398.	3.1	5
64	Experimental Verification of the Hydro-Elastic Model of a Scaled Floating Offshore Wind Turbine. , 2018, , .		5
65	Parametric fault estimation based on H<inf>&#x221E;</inf> optimization in a satellite launch vehicle. , 2008, , .		4
66	Fatigue load modeling and control for wind turbines based on hysteresis operators. , 2015, , .		4
67	A wind farm active power dispatch strategy for fatigue load reduction. , 2016, , .		4
68	A novel quasi-SEPIC high-voltage boost DC-DC converter. , 2017, , .		4
69	Single-phase transformer-less buck-boost inverter with zero leakage current for PV systems. , 2017, , .		4
70	Wind turbine down-regulation strategy for minimum wake deficit. , 2017, , .		4
71	ANFIS Based Approach for Stochastic Modeling of Smart Home. , 2018, , .		4
72	Sensor Fault Detection for Line Regulating Converters supplying Constant Power Loads in DC Microgrids. , 2020, , .		4

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73	Multi-Zone hybrid model for failure detection of the stable ventilation systems. , 2010, , .		3
74	An experimental analysis of the effect of icing on Wind turbine rotor blades. , 2016, , .		3
75	Cable Connection Scheme Optimization for Offshore Wind Farm Considering Wake Effect. , 2018, , .		3
76	Accurate Modeling of DC Microgrid for Fault and Protection Studies. , 2018, , .		3
77	Fault Analysis and Protection of Low-Voltage DC Microgrid Equipped by Renewable Energy Resources. , 2022, , 978-1012.		3
78	Inter-Turn Short-Circuit Fault Ride-Through for DFIG Wind Turbines. IFAC-PapersOnLine, 2020, 53, 12757-12762.	0.9	3
79	Model-Based Estimation of Gas Leakage for Fluid Power Accumulators in Wind Turbines. , 2017, , .		3
80	Fault Analysis and Protection of Low-Voltage DC Microgrid Equipped by Renewable Energy Resources. Advances in Computer and Electrical Engineering Book Series, 2020, , 341-375.	0.3	3
81	Estimation of wind turbulence using spectral models. , 2011, , .		2
82	Robust Parametric Fault Estimation in A Hopper System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 491-498.	0.4	2
83	Novel step-up DC/DC converter with no right half plane zero and reduced switched voltage stress characteristics. , 2014, , .		2
84	A family of four quadrant DC/DC converters with reduced number of components. , 2015, , .		2
85	A nonlinear attitude estimator for attitude and heading reference systems based on mems sensors. , 2016, , .		2
86	Hybrid impedance network-based converter with high voltage gain and no commutation problem. , 2016, , .		2
87	Risk-Based Comparative Study of Fluid Power Pitch Concepts. , 2017, , .		2
88	Coordinated power dispatch of a PMSG based wind farm for output power maximizing considering the wake effect and losses. , 2016, , .		1
89	Dynamic Modeling and Simulation of Marine Satellite Tracking Antenna Using Lagrange Method. , 2016, , .		1
90	An estimator for Attitude and Heading Reference Systems based on Virtual Horizontal Reference. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
91	An adaptive Multiplicative Extended Kalman Filter for attitude estimation of Marine Satellite Tracking Antenna. , 2016, , .		1
92	Optimization of decommission strategy for offshore wind farms. , 2016, , .		1
93	Ship attitude prediction based on Input Delay Neural Network and measurements of gyroscopes. , 2017, , .		1
94	A switched-boost DC/DC converter with high voltage gain and continuous input current. , 2018, , .		1
95	Experimental Modelling of a Floating Offshore Wind Turbine. , 2018, , .		1
96	System Identification and model comparison of a Tension Leg Platform for Floating Offshore Wind Turbines. , 2019, , .		1
97	Blockchain-based protection schemes of DC microgrids. , 2020, , 195-214.		1
98	Controller design for blade load reduction using synthetic jets. , 2014, , .		0
99	A new approach for offshore wind farm energy yields calculation with mixed hub height wind turbines. , 2016, , .		0
100	A transformer-less single phase inverter for photovoltaic systems. , 2017, , .		0
101	A Localized“Protection Scheme for Ring DC Microgrids using Distribution-Sensitive Poverty Index. , 2021, , .		0
102	Attitude stabilization of Marine Satellite Tracking Antenna using Model Predictive Control. IFAC Journal of Systems and Control, 2021, 17, 100173.	1.7	0
103	Net-Zero Energy Buildings: Modeling, Real-Time Operation, and Protection. , 2020, , 141-179.		0