

Bart Jf Meersman

List of Publications by Year in descending order

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48
papers

2,108
citations

471509

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h-index

526287

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48
all docs

48
docs citations

48
times ranked

1981
citing authors

#	ARTICLE	IF	CITATIONS
1	Droop Control as an Alternative Inertial Response Strategy for the Synthetic Inertia on Wind Turbines. IEEE Transactions on Power Systems, 2016, 31, 1129-1138.	6.5	309
2	A Control Strategy for Islanded Microgrids With DC-Link Voltage Control. IEEE Transactions on Power Delivery, 2011, 26, 703-713.	4.3	296
3	Review of primary control strategies for islanded microgrids with power-electronic interfaces. Renewable and Sustainable Energy Reviews, 2013, 19, 613-628.	16.4	202
4	Active Load Control in Islanded Microgrids Based on the Grid Voltage. IEEE Transactions on Smart Grid, 2011, 2, 139-151.	9.0	175
5	Transition From Islanded to Grid-Connected Mode of Microgrids With Voltage-Based Droop Control. IEEE Transactions on Power Systems, 2013, 28, 2545-2553.	6.5	175
6	Analogy Between Conventional Grid Control and Islanded Microgrid Control Based on a Global DC-Link Voltage Droop. IEEE Transactions on Power Delivery, 2012, 27, 1405-1414.	4.3	136
7	Automatic Power-Sharing Modification of P/V Droop Controllers in Low-Voltage Resistive Microgrids. IEEE Transactions on Power Delivery, 2012, 27, 2318-2325.	4.3	125
8	Controllable Harmonic Current Sharing in Islanded Microgrids: DG Units With Programmable Resistive Behavior Toward Harmonics. IEEE Transactions on Power Delivery, 2012, 27, 831-841.	4.3	71
9	Voltage-Based Control of a Smart Transformer in a Microgrid. IEEE Transactions on Industrial Electronics, 2013, 60, 1291-1305.	7.9	69
10	Three-phase inverter-connected DG-units and voltage unbalance. Electric Power Systems Research, 2011, 81, 899-906.	3.6	56
11	Day-ahead unit commitment model for microgrids. IET Generation, Transmission and Distribution, 2017, 11, 1-9.	2.5	51
12	Directly-Coupled Synchronous Generators With Converter Behavior in Islanded Microgrids. IEEE Transactions on Power Systems, 2012, 27, 1395-1406.	6.5	43
13	Neutral-point shifting and voltage unbalance due to single-phase DG units in low voltage distribution networks. , 2009, , .		40
14	Voltage-Based Droop Control of Renewables to Avoid On-Off Oscillations Caused by Overvoltages. IEEE Transactions on Power Delivery, 2013, 28, 845-854.	4.3	39
15	Damping-Based Droop Control Strategy Allowing an Increased Penetration of Renewable Energy Resources in Low-Voltage Grids. IEEE Transactions on Power Delivery, 2016, 31, 1447-1455.	4.3	38
16	Shaft speed ripples in wind turbines caused by tower shadow and wind shear. IET Renewable Power Generation, 2014, 8, 195-202.	3.1	27
17	Voltage dip mitigation capabilities of three-phase damping control strategy. Electric Power Systems Research, 2015, 121, 192-199.	3.6	23
18	Assessment and mitigation of voltage violations by solar panels in a residential distribution grid. , 2011, , .		20

#	ARTICLE	IF	CITATIONS
19	Communication-based secondary control in microgrids with voltage-based droop control. , 2012, , .		20
20	Maximum Efficiency Current Waveforms for a PMSM Including Iron Losses and Armature Reaction. IEEE Transactions on Industry Applications, 2017, 53, 3336-3344.	4.9	20
21	Displacement of the maximum power point caused by losses in wind turbine systems. Renewable Energy, 2016, 85, 273-280.	8.9	17
22	Control of storage elements in an islanded microgrid with voltage-based control of DG units and loads. International Journal of Electrical Power and Energy Systems, 2015, 64, 996-1006.	5.5	16
23	A voltage-source inverter for microgrid applications with an inner current control loop and an outer voltage control loop. Renewable Energy and Power Quality Journal, 2009, 1, 501-506.	0.2	12
24	The influence of grid-connected three-phase inverters on voltage unbalance. , 2010, , .		11
25	Phase unbalance mitigation by three-phase damping voltage-based droop controllers in microgrids. Electric Power Systems Research, 2015, 127, 230-239.	3.6	11
26	Dc-bus voltage balancing controllers for split dc-link four-wire inverters and their impact on the quality of the injected currents. CIRED - Open Access Proceedings Journal, 2017, 2017, 564-568.	0.1	11
27	Power balancing in islanded microgrids by using a dc-bus voltage reference. , 2010, , .		9
28	Evaluation of the Maximum Power Point Tracking performance in small wind turbines. , 2012, , .		9
29	Probabilistic framework for evaluating droop control of photovoltaic inverters. Electric Power Systems Research, 2015, 129, 1-9.	3.6	9
30	Optimization of constant power control of wind turbines to provide power reserves. , 2013, , .		7
31	Comparison of wind turbine power control strategies to provide power reserves. , 2016, , .		7
32	A coordinated voltage control strategy for On-Load Tap Changing transformers with the utilisation of Distributed generators. , 2016, , .		7
33	A wave emulator for ocean wave energy, a Froude-scaled dry power take-off test setup. Renewable Energy, 2017, 105, 712-721.	8.9	7
34	A probabilistic framework for evaluating voltage unbalance mitigation by photovoltaic inverters. Sustainable Energy, Grids and Networks, 2016, 8, 1-11.	3.9	6
35	DC-bus voltage controllers for a three-phase voltage-source inverter for distributed generation. Renewable Energy and Power Quality Journal, 2009, 1, 297-302.	0.2	6
36	Joule losses and torque ripple caused by current waveforms in small and medium wind turbines. , 2013, , .		5

#	ARTICLE	IF	CITATIONS
37	Solar Commercial Virtual Power Plant. , 2013, , .		4
38	Energy yield losses due to emulated inertial response with wind turbines. , 2014, , .		4
39	Soft-Switch DC-DC Converter with a High Conversion Ratio for an Electrical Bicycle. , 2007, , .		3
40	Influence of converter-based distributed generators on the harmonic line losses. , 2008, , .		3
41	Re-adding damping to the distribution network: Harmonics and voltage dips. , 2008, , .		2
42	Power quality improvements through power electronic interfaced distributed generation. , 2010, , .		2
43	Maximum efficiency current waveforms for a PMSM including iron losses and armature reaction. , 2016, , .		2
44	Influence of bus voltage variations on two Maximum Power Point control loops. , 2010, , .		1
45	Impact of speed ripple on the back-EMF waveform of permanent magnet synchronous machines. IET Electric Power Applications, 2013, 7, 400-407.	1.8	1
46	Long term assessment of a voltage unbalance mitigation scheme implemented by photovoltaic inverters. , 2016, , .		1
47	Energy storage system for off-grid testing of a Wave Energy Converter. , 2016, , .		0
48	Voltage dip ride-through capability of converter-connected generators. Renewable Energy and Power Quality Journal, 2007, 1, 344-348.	0.2	0