Lieven Vandevelde

List of Publications by Year
in descending order

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234	4,499	186265	138484
papers	citations	28 h-index	58 g-index

237	237	237	3686
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Model Predictive Control With a Cascaded Hammerstein Neural Network of a Wind Turbine Providing Frequency Containment Reserve. IEEE Transactions on Energy Conversion, 2022, 37, 198-209.	5.2	14
2	Load frequency control for multi-area power systems: A new type-2 fuzzy approach based on Levenbergâ€“Marquardt algorithm. ISA Transactions, 2022, 121, 40-52.	5.7	31
3	Optimized Type-2 Fuzzy Frequency Control for Multi-Area Power Systems. IEEE Access, 2022, 10, 6989-7002.	4.2	29
4	Optimal price-based and emergency demand response programs considering consumers preferences. International Journal of Electrical Power and Energy Systems, 2022, 138, 107890.	5.5	10
5	Flexible operation strategy for formic acid synthesis providing frequency containment reserve in smart grids. International Journal of Electrical Power and Energy Systems, 2022, 139, 107969.	5.5	6
6	A Novel Linear Resolver Proposal and Its Performance Analysis Under Healthy and Asymmetry Air-Gap Fault. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	11
7	Dynamic wake analysis of a wind turbine providing frequency support services. IET Renewable Power Generation, 2022, 16, 1853-1865.	3.1	3
8	Techno-Economic Analysis and Optimal Operation of a Hydrogen Refueling Station Providing Frequency Ancillary Services. IEEE Transactions on Industry Applications, 2022, 58, 5171-5183.	4.9	6
9	A comprehensive and time efficient characterisation of redox flow batteries through Design of Experiments. Journal of Energy Storage, 2022, 50, 104574.	8.1	3
10	On the optimal planning of a hydrogen refuelling station participating in the electricity and balancing markets. International Journal of Hydrogen Energy, 2021, 46, 1488-1500.	7.1	28
11	Day-Ahead Energy and Reserve Dispatch Problem under Non-Probabilistic Uncertainty. Energies, 2021, 14, 1016.	3.1	4
12	Discrete Time Domain Modeling and Control of a Grid-Connected Four-Wire Split-Link Converter. Electronics (Switzerland), 2021, 10, 506.	3.1	1
13	A Low-Voltage DC Backbone with Aggregated RES and BESS: Benefits Compared to a Traditional Low-Voltage AC System. Energies, 2021, 14, 1420.	3.1	12
14	Wind and Solar Intermittency and the Associated Integration Challenges: A Comprehensive Review Including the Status in the Belgian Power System. Energies, 2021, 14, 2630.	3.1	28
15	Techno-economic optimisation of small wind turbines using co-design on a parametrised model. Sustainable Energy Technologies and Assessments, 2021, 45, 101165.	2.7	7
16	Performance Analysis of Variable Reluctance Linear Resolver by Parametric Magnetic Equivalent Circuit in Healthy and Faulty Cases. IEEE Sensors Journal, 2021, 21, 19912-19921.	4.7	18
17	Performance Analysis of a New Type PM-Resolver in Healthy and Eccentric Cases by an Improved Parametric MEC Method. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	23
18	Exploiting Bidirectional Power Flow Control to Capture Wind Gust Power in Small and Medium Wind Turbines. , 2021, , .		1

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19	Dynamic Wake Analysis of a Wind Turbine Providing Frequency Containment Reserve in High Wind Speeds. , 2021, , .		2
20	IMPACT OF FAST WIND FLUCTUATIONS ON THE PROFIT OF A WIND POWER PRODUCER JOINTLY TRADING IN ENERGY AND RESERVE MARKETS. , 2021, , .		2
21	RE/SOURCED PILOT PROJECT: DESIGN AND POWER FLOWANALYSIS OF A LVDC BACKBONE WITH HYBRID ENERGY SYSTEM. , 2021, , .		1
22	Digital Twins for Wind Energy Conversion Systems: A Literature Review of Potential Modelling Techniques Focused on Model Fidelity and Computational Load. Processes, 2021, 9, 2224.	2.8	20
23	Efficiency and Transfer function calculation of the Buck-Boost converter with ideal flow control. , 2021, , .		1
24	Possible Power Quality Ancillary Services in Low-Voltage Grids Provided by the Three-Phase Damping Control Strategy. Applied Sciences (Switzerland), 2020, 10, 7876.	2.5	5
25	Duty Ratio Calculation for Digitally Feed Forward Controlled Parallel Connected Buck-Boost PFC. , 2020, , .		4
26	Feed-Forward Control Method for Digital Power Factor Correction in Parallel Connected Buck-Boost Converter (CCM Mode). , 2020, , .		1
27	The Impact of Pitch-To-Stall and Pitch-To-Feather Control on the Structural Loads and the Pitch Mechanism of a Wind Turbine. Energies, 2020, 13, 4503.	3.1	11
28	Imbalance Pricing Methodology in Belgium: Implications for Industrial Consumers. , 2020, , .		2
29	Optimal Sizing and Economic Analysis of a Hydrogen Refuelling Station Providing Frequency Containment Reserve. , 2020, , .		2
30	Benefit Evaluation of PV Orientation for Individual Residential Consumers. Energies, 2020, 13, 5122.	3.1	10
31	An Adjusted Weight Metric to Quantify Flexibility Available in Conventional Generators for Low Carbon Power Systems. Energies, 2020, 13, 5658.	3.1	3
32	A Two-Stage Stochastic Optimisation Methodology for the Operation of a Chlor-Alkali Electrolyser under Variable DAM and FCR Market Prices. Energies, 2020, 13, 5675.	3.1	6
33	Battery Storage for Ancillary Services in Smart Distribution Grids. Journal of Energy Storage, 2020, 30, 101524.	8.1	48
34	Impact of Solar Panel Orientation on the Integration of Solar Energy in Low-Voltage Distribution Grids. International Journal of Photoenergy, 2020, 2020, 1-13.	2.5	18
35	A Novel Technique for Load Frequency Control of Multi-Area Power Systems. Energies, 2020, 13, 2125.	3.1	22
36	Grid balancing with a largeâ€scale electrolyser providing primary reserve. IET Renewable Power Generation, 2020, 14, 3070-3078.	3.1	35

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37	An Adaptiveâ€“Predictive control scheme with dynamic Hysteresis Modulation applied to a DCâ€“DC buck converter. ISA Transactions, 2020, 105, 240-255.	5.7	13
38	Addressing the Challenges of a Nuclear Phase-Out with Energy Synergies on Business Parks. Proceedings (mdpi), 2020, 58, .	0.2	0
39	Simulation of the Primary Frequency Control Pre-Qualification Test for a 5MW Wind Turbine. , 2020, , .		2
40	Harvesting wind gust energy with small and medium wind turbines using a bidirectional control strategy. Journal of Engineering, 2019, 2019, 4261-4266.	1.1	12
41	Thermal Performance Evaluation of an Induced Draft Evaporative Cooling System through Adaptive Neuro-Fuzzy Interference System (ANFIS) Model and Mathematical Model. Energies, 2019, 12, 2544.	3.1	7
42	An automated GIS-based planning and design tool for district heating: Scenarios for a Dutch city. Energy, 2019, 183, 487-496.	8.8	18
43	Battery Storage Integration in Voltage Unbalance and Overvoltage Mitigation Control Strategies and Its Impact on the Power Quality. Energies, 2019, 12, 1501.	3.1	19
44	Assessing Financial and Flexibility Incentives for Integrating Wind Energy in the Grid Via Agent-Based Modeling. Energies, 2019, 12, 4314.	3.1	4
45	Grid balancing with a large-scale electrolyser providing primary reserve. , 2019, , .		2
46	A Data-Driven Approach Using Deep Learning Time Series Prediction for Forecasting Power System Variables. , 2019, , .		3
47	Performance and Structural Load Analysis of Small and Medium Wind Turbines Operating with Active Speed Stall Control versus Pitch Control. , 2019, , .		3
48	Impact of the â€™Transfer of Energyâ€™ Regulation on Industrial Flexibility Valorisation. , 2019, , .		0
49	Overvoltage and voltage unbalance mitigation in areas with high penetration of renewable energy resources by using the modified three-phase damping control strategy. Electric Power Systems Research, 2019, 168, 283-294.	3.6	39
50	Robust approximation models for predictive control of a variable pitch wind power drivetrain. , 2019, , .		0
51	A Microgrid Multilayer Control Concept for Optimal Power Scheduling and Voltage Control. IEEE Transactions on Smart Grid, 2018, 9, 4458-4467.	9.0	9
52	Voltage Unbalance and Overvoltage Mitigation by Using the Three-phase Damping Control Strategy in Battery Storage Applications. , 2018, , .		6
53	Comparison Between Different Modelling Methods to Study the Dynamical Behaviour of Line Start Permanent Magnet Synchronous Motors. , 2018, , .		0
54	The Effect of Design Considerations on the Synchronization Capability Limits of Line-Start Permanent-Magnet Synchronous Motors. , 2018, , .		3

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55	Optimal sizing of an industrial microgrid considering socioâ€organisational aspects. IET Generation, Transmission and Distribution, 2018, 12, 3442-3451.	2.5	10
56	Classification Method to Define Synchronization Capability Limits of Line-Start Permanent-Magnet Motor Using Mesh-Based Magnetic Equivalent Circuit Computation Results. Energies, 2018, 11, 998.	3.1	8
57	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
58	Towards low carbon business park energy systems: A holistic techno-economic optimisation model. Energy, 2017, 125, 747-770.	8.8	11
59	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
60	Dayâ€ahead unit commitment model for microgrids. IET Generation, Transmission and Distribution, 2017, 11, 1-9.	2.5	51
61	Modeling of active yaw systems for small and medium wind turbines. , 2017, , .		7
62	Potential of domestically provided ancillary services to the electrical grid. , 2017, , .		1
63	Thermal systems in process industry as a source for electrical flexibility. , 2017, , .		1
64	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
65	Pilot project using curtailment to increase the renewable energy share on the distribution network. CIRED - Open Access Proceedings Journal, 2017, 2017, 1370-1373.	0.1	2
66	Contribution of Microgrids to the Development of the Smart Grid. , 2017, , 191-211.		1
67	Energy storage system for off-grid testing of a Wave Energy Converter. , 2016, , .		0
68	Maximum efficiency current waveforms for a PMSM including iron losses and armature reaction. , 2016, , .		2
69	Modeling of a power sharing transmission in a wave energy converter. , 2016, , .		1
70	Comparison of wind turbine power control strategies to provide power reserves. , 2016, , .		7
71	A coordinated voltage control strategy for On-Load Tap Changing transformers with the utilisation of Distributed generators. , 2016, , .		7
72	A probabilistic framework for evaluating voltage unbalance mitigation by photovoltaic inverters. Sustainable Energy, Grids and Networks, 2016, 8, 1-11.	3.9	6

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73	Magnetic forces and magnetostriction in rotating electrical machines. , 2016, , .		9
74	Macroscopic Description of the Magnetostrictive Behavior of Electrical Steel in the Presence of High-Order Harmonics in the Magnetization. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	2
75	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
76	Grid voltage control with distributed generation using online grid impedance estimation. Sustainable Energy, Grids and Networks, 2016, 5, 70-77.	3.9	13
77	Displacement of the maximum power point caused by losses in wind turbine systems. Renewable Energy, 2016, 85, 273-280.	8.9	17
78	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
79	OLTC selection and switching reduction in multiple-feeder LV distribution networks. , 2015, , .		2
80	Congestion Control Algorithm in Distribution Feeders: Integration in a Distribution Management System. Energies, 2015, 8, 6013-6032.	3.1	2
81	Wind Resource Mapping Using Landscape Roughness and Spatial Interpolation Methods. Energies, 2015, 8, 8682-8703.	3.1	14
82	Anisotropic and Strain-Dependent Model of Magnetostriction in Electrical Steel Sheets. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	18
83	Evaluation of the additional loss due to supply voltage distortion in relation to induction motor efficiency rating. , 2015, , .		4
84	Voltage based droop control in an islanded microgrid with wind turbines and battery storage. , 2015, , .		1
85	Wind-PV-storage optimal environomic design using multi-objective Artificial Bee Colony. , 2015, , .		2
86	Voltage dip mitigation capabilities of three-phase damping control strategy. Electric Power Systems Research, 2015, 121, 192-199.	3.6	23
87	Phase unbalance mitigation by three-phase damping voltage-based droop controllers in microgrids. Electric Power Systems Research, 2015, 127, 230-239.	3.6	11
88	Impact of increased penetration of large-scale wind farms on power system dynamic stability - A review. , 2015, , .		8
89	A simulation tool for extended distribution grids with controlled distributed generation. , 2015, , .		18
90	Optimal Electrical Interconnection Configuration of Off-Shore Wind Farms. Journal of Clean Energy Technologies, 2015, 4, 66-71.	0.1	3

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91	Optimal energy storage sizing based on wind curtailment reduction. , 2014, , .		3
92	Solar commercial virtual power plant day ahead trading. , 2014, , .		7
93	Magnetostrictive deformation of a transformer: A comparison between calculation and measurement. International Journal of Applied Electromagnetics and Mechanics, 2014, 44, 295-299.	0.6	13
94	Anticipating and Coordinating Voltage Control for Interconnected Power Systems. Energies, 2014, 7, 1027-1047.	3.1	11
95	Influence of ferromagnetic bridges in dq-equivalent-circuit modeling of interior permanent-magnet machines. , 2014, , .		1
96	Load angle estimation for twoâ€phase hybrid stepping motors. IET Electric Power Applications, 2014, 8, 257-266.	1.8	17
97	Grid voltage control with wind turbine inverters by using grid impedance estimation. , 2014, , .		4
98	Multi-objective design of multi-stage fuzzy stabilizer using modified Honey-Bee mating optimization. , 2014, , .		1
99	The Efficiency of Hybrid Stepping Motors: Analyzing the Impact of Control Algorithms. IEEE Industry Applications Magazine, 2014, 20, 50-60.	0.4	27
100	Magnetostriction strain measurement and its application for the numerical deformation calculation of a transformer. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 572-579.	1.9	2
101	Magnetostrictive vibrations model of a three-phase transformer core and the contribution of the fifth harmonic in the grid voltage. Journal of Applied Physics, 2014, 115, 17A316.	2.5	4
102	Energy yield losses due to emulated inertial response with wind turbines. , 2014, , .		4
103	Ancillary services for the electrical grid by waste heat. Applied Thermal Engineering, 2014, 70, 1156-1161.	6.0	5
104	Virtual power plant to deliver congestion management and frequency restoration reserve. , 2014, , .		1
105	Multi-objective optimization for environomic scheduling in microgrids. , 2014, , .		7
106	Congestion-induced wind curtailment mitigation using energy storage. , 2014, , .		7
107	Magnetic forces and stresses in ferromagnetic material. , 2014, , .		0
108	Evaluation of the Efficiency of Line-Start Permanent-Magnet Machines as a Function of the Operating Temperature. IEEE Transactions on Industrial Electronics, 2014, 61, 4443-4454.	7.9	37

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109	Towards low carbon business park energy systems: Classification of techno-economic energy models. Energy, 2014, 75, 68-80.	8.8	32
110	Influence of Supply Voltage Distortion on the Energy Efficiency of Line-Start Permanent-Magnet Motors. IEEE Transactions on Industry Applications, 2014, 50, 1034-1043.	4.9	17
111	Effective capture of wind gusts in small wind turbines by using a full active rectifier. , 2014, , .		6
112	Shaft speed ripples in wind turbines caused by tower shadow and wind shear. IET Renewable Power Generation, 2014, 8, 195-202.	3.1	27
113	Theoretical Analysis and Experimental Validation of Single-Phase Direct Versus Cascade Voltage Control in Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2013, 60, 789-798.	7.9	27
114	Microgrids: Hierarchical Control and an Overview of the Control and Reserve Management Strategies. IEEE Industrial Electronics Magazine, 2013, 7, 42-55.	2.6	220
115	Mutual-inductance modelling in line-start permanent-magnet synchronous machines based on winding-function theory. , 2013, , .		2
116	Online estimation of the power coefficient versus tip-speed ratio curve of wind turbines. , 2013, , .		17
117	Optimization of constant power control of wind turbines to provide power reserves. , 2013, , .		7
118	Development of a cloud-based renewable energy monitoring platform. , 2013, , .		0
119	Evaluation of the MPPT performance in small wind turbines by estimating the tip-speed ratio. , 2013, , .		4
120	Contribution of a smart transformer in the local primary control of a microgrid. , 2013, , .		0
121	Energy management and dynamic optimisation of eco-industrial parks. , 2013, , .		3
122	Voltage Coordination in Multi-Area Power Systems via Distributed Model Predictive Control. IEEE Transactions on Power Systems, 2013, 28, 513-521.	6.5	90
123	Joule losses and torque ripple caused by current waveforms in small and medium wind turbines. , 2013, , .		5
124	Review of primary control strategies for islanded microgrids with power-electronic interfaces. Renewable and Sustainable Energy Reviews, 2013, 19, 613-628.	16.4	202
125	Voltage-Based Control of a Smart Transformer in a Microgrid. IEEE Transactions on Industrial Electronics, 2013, 60, 1291-1305.	7.9	69
126	Voltage-Based Droop Control of Renewables to Avoid Onâ€“Off Oscillations Caused by Overvoltages. IEEE Transactions on Power Delivery, 2013, 28, 845-854.	4.3	39

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127	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
128	Distributed communication-based Model Predictive Control for long-term voltage instability. , 2013, , .		4
129	Simultaneous optimal placement and parameter-tuning of SVC, TCSC and PSS using Honey-Bee Mating Optimization. , 2013, , .		6
130	Three-Phase Primary Control for Unbalance Sharing between Distributed Generation Units in a Microgrid. Energies, 2013, 6, 6586-6607.	3.1	3
131	Impact of speed ripple on the backâ€emf waveform of permanent magnet synchronous machines. IET Electric Power Applications, 2013, 7, 400-407.	1.8	1
132	Development of a smart transformer to control the power exchange of a microgrid. , 2013, , .		13
133	Use of energy storage for Belgian power network. , 2013, , .		3
134	Solar Commercial Virtual Power Plant. , 2013, , .		4
135	Prediction of yield of solar modules as a function of technological and climatic parameters. , 2013, , .		5
136	Improvement of active power sharing ratio of P/V droop controllers in low-voltage islanded microgrids. , 2013, , .		7
137	Test field for LV distribution systems. , 2013, , .		1
138	Rotor induced harmonic voltages caused by supply voltage distortion, the interaction and its influence on the overall energy efficiency of Line Start Permanent Magnet Machines. , 2013, , .		1
139	Using general synchronous machine theory to integrate PLL controller dynamics into a static power electronic converter model. , 2012, , .		2
140	Soft curtailment for voltage limiting in low-voltage networks through reactive or active power droops. , 2012, , .		2
141	Evaluation of the Maximum Power Point Tracking performance in small wind turbines. , 2012, , .		9
142	Magnetostriction and the Influence of Higher Harmonics in the Magnetic Field. IEEE Transactions on Magnetics, 2012, 48, 3981-3984.	2.1	22
143	Temperature dependency of the efficiency of Line Start Permanent Magnet Machines. , 2012, , .		2
144	Communication-based secondary control in microgrids with voltage-based droop control. , 2012, , .		20

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145	Comparative study of the influence of harmonic voltage distortion on the efficiency of induction machines versus line start permanent magnet machines. , 2012, , .		9
146	Estimation of end user voltage quality including background distortion. , 2012, , .		2
147	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
148	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
149	Directly-Coupled Synchronous Generators With Converter Behavior in Islanded Microgrids. IEEE Transactions on Power Systems, 2012, 27, 1395-1406.	6.5	43
150	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
151	Electrical balancing potential in Belgian residential installations. , 2011, , .		2
152	Influence of harmonic voltage distortion on asynchronous generators. , 2011, , .		4
153	Assessment and mitigation of voltage violations by solar panels in a residential distribution grid. , 2011, , .		20
154	Influence of grid configuration on current conducting behaviour in PV installations. , 2011, , .		1
155	Integrated simulation of power and communication networks for smart grid applications. , 2011, , .		64
156	Smart microgrids and virtual power plants in a hierarchical control structure. , 2011, , .		37
157	A Control Strategy for Islanded Microgrids With DC-Link Voltage Control. IEEE Transactions on Power Delivery, 2011, 26, 703-713.	4.3	296
158	The opportunities of two-phase hybrid stepping motor back EMF sampling. , 2011, , .		4
159	Active Load Control in Islanded Microgrids Based on the Grid Voltage. IEEE Transactions on Smart Grid, 2011, 2, 139-151.	9.0	175
160	Three-phase inverter-connected DG-units and voltage unbalance. Electric Power Systems Research, 2011, 81, 899-906.	3.6	56
161	Energy management on industrial parks in Flanders. Renewable and Sustainable Energy Reviews, 2011, 15, 1988-2005.	16.4	58
162	Derating factors for direct online induction machines when supplied with voltage harmonics: A critical view. , 2011, , .		18

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163	Preventing overvoltages in PV grids by integration of small storage capacity. , 2011, , .		7
164	The use of binary particle swarm optimization to obtain a demand side management system. , 2011, , .		11
165	Overview of voltage control strategies in medium voltage networks with implementation of distributed generation. , 2011, , .		5
166	Economic evaluation of the influence of overvoltages and the integration of small storage capacity in residential PV-installations. , 2011, , .		6
167	Distributed generation and the voltage profile on distribution feeders during voltage dips. Electric Power Systems Research, 2010, 80, 1452-1458.	3.6	6
168	Magnetostriction Measurement by Using Dual Heterodyne Laser Interferometers. IEEE Transactions on Magnetics, 2010, 46, 505-508.	2.1	28
169	Fast harmonic simulation method for the analysis of network losses with converter-connected distributed generation. Electric Power Systems Research, 2010, 80, 1332-1340.	3.6	7
170	Influence of power control strategies on the voltage profile in an islanded microgrid. , 2010, , .		1
171	Power injection by distributed generation and the influence of harmonic load conditions. , 2010, , .		9
172	Influence of harmonic currents on cable losses for different grid configurations. , 2010, , .		6
173	Power quality improvements through power electronic interfaced distributed generation. , 2010, , .		2
174	Magnetostriction and the Advantages of Using Noncontact Measurements. , 2010, , .		2
175	Sensitivity analysis of a linear model for a vector controlled hybrid stepping motor. , 2010, , .		1
176	A linear time-invariant model for a Vector-controlled two-phase stepping motor. , 2010, , .		0
177	Power balancing in islanded microgrids by using a dc-bus voltage reference. , 2010, , .		9
178	Influence of bus voltage variations on two Maximum Power Point control loops. , 2010, , .		1
179	The influence of grid-connected three-phase inverters on voltage unbalance. , 2010, , .		11
180	Multi-level robust surrogate-based optimization applied to design of electrical machines. , 2010, , .		1

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181	ISO Efficiency Curves of a -Two-Phase Hybrid Stepping Motor. , 2010, , .		3
182	Technical and business economic study of photovoltaic systems. Renewable Energy and Power Quality Journal, 2010, 1, 509-514.	0.2	6
183	Maximum power injection acceptance in a residential area. Renewable Energy and Power Quality Journal, 2010, 1, 637-642.	0.2	12
184	Converter-connected distributed generation units with integrated harmonic voltage damping and harmonic current compensation function. Electric Power Systems Research, 2009, 79, 65-70.	3.6	18
185	Neutral-point shifting and voltage unbalance due to single-phase DG units in low voltage distribution networks. , 2009, , .		40
186	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
187	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
188	Improving the voltage dip immunity of converter-connected distributed generation units. Renewable Energy, 2008, 33, 1011-1018.	8.9	21
189	Comparison of Magnetostriction Models for Use in Calculations of Vibrations in Magnetic Cores. IEEE Transactions on Magnetics, 2008, 44, 874-877.	2.1	50
190	Distributed Generation for Mitigating Voltage Dips in Low-Voltage Distribution Grids. IEEE Transactions on Power Delivery, 2008, 23, 1581-1588.	4.3	77
191	Nonlinear transformer model in the frequency domain and with symmetrical components. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 1418-1437.	0.9	6
192	Numerical analysis of magnetic noise and torque ripples of split-phase induction motors. , 2008, , .		0
193	Influence of converter-based distributed generators on the harmonic line losses. , 2008, , .		3
194	Re-adding damping to the distribution network: Harmonics and voltage dips. , 2008, , .		2
195	Magnetic force and couple densities and magneto elastic interactions. , 2008, , .		0
196	Numerical analysis of the contribution of magnetic forces and magnetostriction to the vibrations in induction machines. IET Science, Measurement and Technology, 2007, 1, 21-24.	1.6	23
197	Embedded Rungeâ€“Kutta methods for the integration of a current control loop in an SRM dynamic finite element model. IET Science, Measurement and Technology, 2007, 1, 17-20.	1.6	4
198	A Boost PFC Converter With Programmable Harmonic Resistance. IEEE Transactions on Industry Applications, 2007, 43, 742-750.	4.9	24

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199	A Space Vector Strategy for Smooth Torque Control of Switched Reluctance Machines. , 2007, , .		4
200	Profits of power-quality improvement by residential distributed generation. , 2007, , .		5
201	Input impedance of grid-connected converters with programmable harmonic resistance. IET Electric Power Applications, 2007, 1, 355.	1.8	17
202	Neural-Network-Based Model for Dynamic Hysteresis in the Magnetostriction of Electrical Steel Under Sinusoidal Induction. IEEE Transactions on Magnetics, 2007, 43, 3462-3466.	2.1	30
203	Voltage dip ride-through capability of converter-connected generators. Renewable Energy and Power Quality Journal, 2007, 1, 344-348.	0.2	0
204	A discreteâ€time model including crossâ€saturation for surface permanentâ€magnet synchronous machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 766-778.	0.9	4
205	A GENERAL DESCRIPTION OF HIGH-FREQUENCY POSITION ESTIMATORS FOR INTERIOR PERMANENT-MAGNET SYNCHRONOUS MOTORS. , 2006, , 141-153.		6
206	Damping potential of single-phase bidirectional rectifiers with resistive harmonic behaviour. IET Electric Power Applications, 2006, 153, 68.	1.4	15
207	Neural-network-based model for dynamic hysteresis in the magnetostriction of electrical steel under sinusoidal magnetisation. , 2006, , .		0
208	The relation between the magnetostriction and the hysteresis losses in the non-oriented electrical steels. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1454-1456.	2.3	14
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