

Claus Leth Back

List of Publications by Year in descending order

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173
papers

3,726
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173
all docs

173
docs citations

173
times ranked

3015
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonic Injection Based Distance Protection for Line With Converter-Interfaced Sources. IEEE Transactions on Industrial Electronics, 2023, 70, 1553-1564.	7.9	4
2	Backflashover Performance Evaluation of the Partially Grounded Scheme of Overhead Lines With Fully Composite Pylons. IEEE Transactions on Power Delivery, 2022, 37, 823-832.	4.3	3
3	A pilot protection scheme for VSC-MTDC grids based on polarity comparison using a combined morphological technique. Electrical Engineering, 2022, 104, 1395-1411.	2.0	3
4	Improved Euclidean Distance Based Pilot Protection for Lines With Renewable Energy Sources. IEEE Transactions on Industrial Informatics, 2022, 18, 8551-8562.	11.3	10
5	Comprehensive current amplitude ratio based pilot protection for line with converter-interfaced sources. Energy Reports, 2022, 8, 420-430.	5.1	2
6	Same Goal, Different Pathways for Energy Transition: A More Holistic, Multisector, Community-Driven Approach. IEEE Power and Energy Magazine, 2022, 20, 18-29.	1.6	3
7	Transient overvoltage analysis in the medium voltage substations based on full-wave modeling of two-layer grounding system. Electric Power Systems Research, 2022, 211, 108139.	3.6	6
8	Analysis of Harmonic Propagation in Power Systems Using Standing Waves. , 2022, , .		2
9	STATCOM Impacts on Synchronous Generator LOE Protection: A Realistic Study Based on IEEE Standard C37. 102. IEEE Transactions on Industry Applications, 2021, 57, 1255-1264.	4.9	3
10	Electric Field Computation and Optimization for A 400 kV Y-shaped Composite Cross-arm. , 2021, , .		3
11	Electrical Stress on the Medium Voltage Medium Frequency Transformer. Energies, 2021, 14, 5136.	3.1	2
12	Optimal Decision Making in Electrical Systems Using an Asset Risk Management Framework. Energies, 2021, 14, 4987.	3.1	4
13	Protection collaborative fault control for power electronic-based power plants during unbalanced grid faults. International Journal of Electrical Power and Energy Systems, 2021, 130, 107009.	5.5	15
14	Integrated model of transmission tower surge impedance and multilayer grounding system based on full-wave approach. Electric Power Systems Research, 2021, 198, 107355.	3.6	7
15	Optimal Shunt Busbar Capacitor Placement for Selective Protection of Large-Scale VSC-MTDC Grids. Electric Power Systems Research, 2021, 199, 107458.	3.6	1
16	Double-layer stochastic model predictive voltage control in active distribution networks with high penetration of renewables. Applied Energy, 2021, 302, 117530.	10.1	16
17	100% Sustainable Electricity in the Faroe Islands: Expansion Planning Through Economic Optimization. IEEE Open Access Journal of Power and Energy, 2021, 8, 23-34.	3.4	26
18	Analysis and validation of mathematical morphology filters for single-ended fault localization in VSC-HVDC links. Electrical Engineering, 2021, 103, 1583-1596.	2.0	3

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19	Lightning performance and formula description of a Y-shaped composite pylon considering the effect of tower-footing impedance. , 2021, , .		2
20	Frequency Dependence of Multilayer Soil Electrical Parameters: Effects on Ground Potential Rise. , 2021, , .		1
21	Lightning Shielding Failure Investigation by High Voltage Experiments. Lecture Notes in Electrical Engineering, 2020, , 181-204.	0.4	0
22	A Current-Based Differential Technique to Detect Loss of Field in Synchronous Generators. IEEE Transactions on Power Delivery, 2020, 35, 514-522.	4.3	19
23	On the Application of Modal Transient Analysis for Online Fault Localization in HVDC Cable Bundles. IEEE Transactions on Power Delivery, 2020, 35, 1365-1378.	4.3	14
24	Novel differential protection based on the ratio of model error indices in time-domain for transmission cable system. Electric Power Systems Research, 2020, 180, 106077.	3.6	3
25	A droop line tracking control for multi-terminal VSC-HVDC transmission system. Electric Power Systems Research, 2020, 179, 106055.	3.6	11
26	Performance Assessment of Some Practical Loss of Excitation Detection Schemes Employing a Realistic Model. Energies, 2020, 13, 5928.	3.1	5
27	Offshore Wind Farm Black Start Service Integration: Review and Outlook of Ongoing Research. Energies, 2020, 13, 6286.	3.1	15
28	Influence of Converter-based Power Sources on the Distance Relay under System Asymmetrical Faults. , 2020, , .		1
29	A New Guideline for Security Assessment of Power Systems with a High Penetration of Wind Turbines. Applied Sciences (Switzerland), 2020, 10, 3190.	2.5	10
30	Novel differential protection using model recognition and unsymmetrical vector reconstruction for the transmission line with wind farms connection. International Journal of Electrical Power and Energy Systems, 2020, 123, 106311.	5.5	13
31	Modeling and Adaptive Design of the SRF-PLL: Nonlinear Time-Varying Framework. IEEE Access, 2020, 8, 28635-28645.	4.2	17
32	Directional derivative-based method for quasi-stationary voltage support analysis of single-infeed VSC-HVDC units. High Voltage, 2020, 5, 511-522.	4.7	1
33	Modal online differential fault detection and localisation scheme for VSC-MTDC cable transmission. IET Generation, Transmission and Distribution, 2020, 14, 4475-4487.	2.5	2
34	Centralized coordination of load shedding and protection system of transmission lines. International Transactions on Electrical Energy Systems, 2019, 29, e2674.	1.9	6
35	Synchronous Generator LOF Protection Using a Detailed Model Based on IEEE Standard C37.102-2006. , 2019, , .		2
36	A DC Power-Based Scheme to Detect Loss of Field in Synchronous Generators. , 2019, , .		3

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37	Online Fault Location in Monopolar LCC-HVDC links With Metallic Return Using Modal Transient Data. , 2019, , .		2
38	Performance Evaluation of Some Industrial Loss of Field Protection Schemes Using a Realistic Model in The RTDS. , 2019, , .		1
39	Analytical Solutions for Power Flow Equations Based on the Multivariate Quotient-Difference Method. , 2019, , .		1
40	A Comparative Study into Enhancing the PV Penetration Limit of a LV CIGRE Residential Network with Distributed Grid-Tied Single-Phase PV Systems. Energies, 2019, 12, 2964.	3.1	16
41	A Novel Model Recognition -based Current Differential Protection in Time-Domain. , 2019, , .		5
42	Impacts of intraday risky power trades on the high wind penetrated electricity markets. IET Generation, Transmission and Distribution, 2019, 13, 3836-3846.	2.5	6
43	A Harmonic Based Pilot Protection Scheme for VSC-MTDC Grids with PWM Converters. Energies, 2019, 12, 1010.	3.1	12
44	Synchronous Generator Loss of Field Protection: A Real-Time Realistic Framework and Assessment of Some Recently Proposed Methods. IEEE Transactions on Power Delivery, 2019, 34, 971-979.	4.3	20
45	Remote Voltage Control Using the Holomorphic Embedding Load Flow Method. IEEE Transactions on Smart Grid, 2019, 10, 6308-6319.	9.0	14
46	Optimal operational scheduling and reconfiguration coordination in smart grids for extreme weather condition. IET Generation, Transmission and Distribution, 2019, 13, 3455-3463.	2.5	15
47	Large Signal Stability Assessment of the Grid-Connected Converters based on its Inertia. , 2019, , .		1
48	Security Analysis of Power Electronic-based Power Systems. , 2019, , .		3
49	Design of a High-Power Resonant Converter for DC Wind Turbines. IEEE Transactions on Power Electronics, 2019, 34, 6136-6154.	7.9	18
50	Optimum Design of Power Converter Current Controllers in Large-Scale Power Electronics Based Power Systems. IEEE Transactions on Industry Applications, 2019, 55, 2792-2799.	4.9	14
51	A High-Power, Medium-Voltage, Series-Resonant Converter for DC Wind Turbines. IEEE Transactions on Power Electronics, 2018, 33, 7455-7465.	7.9	18
52	An approach to dynamic line rating state estimation at thermal steady state using direct and indirect measurements. Electric Power Systems Research, 2018, 163, 599-611.	3.6	15
53	Online Voltage Stability Assessment for Load Areas Based on the Holomorphic Embedding Method. IEEE Transactions on Power Systems, 2018, 33, 3720-3734.	6.5	48
54	Analysis of a High-Power, Resonant DC-DC Converter for DC Wind Turbines. IEEE Transactions on Power Electronics, 2018, 33, 7438-7454.	7.9	30

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55	Bus Participation Factor Analysis for Harmonic Instability in Power Electronics Based Power Systems. IEEE Transactions on Power Electronics, 2018, 33, 10341-10351.	7.9	48
56	Harmonic Stability and Resonance Analysis in Large PMSG-Based Wind Power Plants. IEEE Transactions on Sustainable Energy, 2018, 9, 12-23.	8.8	95
57	Investigation on Shielding Failure of a Novel 400-kV Double-Circuit Composite Tower. IEEE Transactions on Power Delivery, 2018, 33, 752-760.	4.3	14
58	Reducing Harmonic Instability and Resonance Problems in PMSG-Based Wind Farms. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 73-83.	5.4	16
59	Automatic voltage control system with market price employing large wind farms. Electric Power Systems Research, 2018, 157, 93-105.	3.6	4
60	Model-Based Control Design of Series Resonant Converter Based on the Discrete Time Domain Modelling Approach for DC Wind Turbine. Journal of Renewable Energy, 2018, 2018, 1-18.	3.6	4
61	A Hierarchical Game Theoretical Approach for Energy Management of Electric Vehicles and Charging Stations in Smart Grids. IEEE Access, 2018, 6, 67223-67234.	4.2	57
62	An Adaptive Algorithm for Fault Identification in Transmission Lines by Short-Time Fourier Transform Function. , 2018, , .		1
63	Transfer Matrix-Based Differential Protection of Transmission Lines. , 2018, , .		0
64	Improved protection system for phase faults on marine vessels based on ratio between negative sequence and positive sequence of the fault current. IET Electrical Systems in Transportation, 2018, 8, 251-258.	2.4	1
65	Lyapunov- and Eigenvalue-based Stability Assessment of the Grid-connected Voltage Source Converter. , 2018, , .		12
66	Protection of Multi-Terminal VSC-HVDC Grids Based on the Response of the First Carrier Frequency Harmonic Current. , 2018, , .		6
67	Large-Signal Stability Modeling for the Grid-Connected VSC Based on the Lyapunov Method. Energies, 2018, 11, 2533.	3.1	19
68	Calculation of Voltage Unbalance in Transmission Systems Due to AC Railway Operation: A Simplified Methodology Using Network Admittance Matrix. , 2018, , .		1
69	Markov Model of Renewable Resources for Reliability Assessment of Distribution Systems. , 2018, , .		2
70	Investigation of DC-DC Boost Converter for Reliability of Operational Planning. , 2018, , .		2
71	Online Synchrophasor-Based Dynamic State Estimation Using Real-Time Digital Simulator. , 2018, , .		2
72	Including the Constraints That Have Less Than One-Hour Characteristics in an Hourly Based Generation Scheduling Regime. , 2018, , .		1

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73	Synchronous Generator Loss of Field Protection by Using Rotor Angle Variations. , 2018, , .		3
74	A Comparative Study on the Bidding Behaviour of Pay as Bid and Uniform Price Electricity Market Players. , 2018, , .		2
75	Electromagnetic Interference Issues of a Wireless Power Transmission Converter. , 2018, , .		1
76	Loss of Field Protection of Synchronous Generator in a Realistic Framework Using RTDS. , 2018, , .		3
77	Distance protection in 150/60kV transformer 60kV feeders: two real blackout case studies. Journal of Engineering, 2018, 2018, 802-806.	1.1	3
78	Deploying correct fault loop in distance protection of multiple circuit shared tower transmission lines with different voltages. Journal of Engineering, 2018, 2018, 1087-1090.	1.1	1
79	Utilisation of symmetrical components in a communication based protection for loop MV feeders with variable short circuit power. Journal of Engineering, 2018, 2018, 1245-1251.	1.1	1
80	An Accurate Online Dynamic Security Assessment Scheme Based on Random Forest. Energies, 2018, 11, 1914.	3.1	27
81	Harmonic Susceptibility Study of DC Collection Network Based on Frequency Scan and Discrete Time-Domain Modelling Approach. Journal of Electrical and Computer Engineering, 2018, 2018, 1-25.	0.9	0
82	Application of shunt busbar capacitor installations for protection of VSC-MTDC grids. , 2018, , .		2
83	Improving the Impedance-Based Stability Criterion by Using the Vector Fitting Method. IEEE Transactions on Energy Conversion, 2018, 33, 1739-1747.	5.2	17
84	Centralized coordination of emergency control and protection system using online outage sensitivity index. Electric Power Systems Research, 2018, 163, 413-422.	3.6	14
85	A review of the protection algorithms for multi-terminal VCD-HVDC grids. , 2018, , .		9
86	Methodology to assess phasor measurement unit in the estimation of dynamic line rating. IET Generation, Transmission and Distribution, 2018, 12, 3820-3828.	2.5	3
87	Conductor Temperature Estimation and Prediction at Thermal Transient State in Dynamic Line Rating Application. IEEE Transactions on Power Delivery, 2018, 33, 2236-2245.	4.3	39
88	Frequency-Domain Modeling and Simulation of DC Power Electronic Systems Using Harmonic State Space Method. IEEE Transactions on Power Electronics, 2017, 32, 1044-1055.	7.9	30
89	Variation of UPFC controllable parameters during power swing and their impacts on distance relay. IET Generation, Transmission and Distribution, 2017, 11, 1735-1744.	2.5	13
90	Power Swing Detection in UPFC-Compensated Line by Phase Angle of Current. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2017, 7, 459-468.	3.6	7

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91	Linearized Modeling Methods of AC-DC Converters for an Accurate Frequency Response. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1526-1541.	5.4	23
92	Analysis and design of notch filter-based PLLs for grid-connected applications. Electric Power Systems Research, 2017, 147, 62-69.	3.6	41
93	Harmonic Interaction Analysis in a Grid-Connected Converter Using Harmonic State-Space (HSS) Modeling. IEEE Transactions on Power Electronics, 2017, 32, 6823-6835.	7.9	94
94	The issue of unit constraints and the non-confiscatory electricity market. , 2017, , .		0
95	Performance of power swing blocking methods in UPFC-compensated line. International Transactions on Electrical Energy Systems, 2017, 27, e2382.	1.9	7
96	The Application of Vector Fitting to Eigenvalue-Based Harmonic Stability Analysis. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1487-1498.	5.4	23
97	Comparison between conventional and post-processing PMU-based state estimation to deal with bad data. , 2017, , .		2
98	A Multi-Dimensional Holomorphic Embedding Method to Solve AC Power Flows. IEEE Access, 2017, 5, 25270-25285.	4.2	47
99	Dynamic resonance sensitivity analysis in wind farms. , 2017, , .		3
100	Centralized load shedding based on thermal limit of transmission lines against cascading events. , 2017, , .		9
101	A feeder protection method against the phase-phase fault using symmetrical components. , 2017, , .		6
102	A Novel Approach to Detect Faults Occurring During Power Swings by Abrupt Change of Impedance Trajectory. Electric Power Components and Systems, 2017, 45, 1638-1652.	1.8	4
103	Harmonic instability source identification in large wind farms. , 2017, , .		2
104	A Numerical Matrix-Based Method for Stability and Power Quality Studies Based on Harmonic Transfer Functions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1542-1552.	5.4	11
105	Controlled Operation of the Islanded Portion of the International Council on Large Electric Systems (CIGRE) Low Voltage Distribution Network. Energies, 2017, 10, 1021.	3.1	4
106	Small signal modeling of wind farms. , 2017, , .		4
107	Electric stress computations for designing a novel unibody composite cross-arm using finite element method. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3567-3577.	2.9	22
108	Long Term Expected Revenue of Wind Farms Considering the Bidding Admission Uncertainty. Energies, 2016, 9, 945.	3.1	4

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109	A performance comparison between extended Kalman Filter and unscented Kalman Filter in power system dynamic state estimation. , 2016, , .		33
110	Dynamic line rating " Technologies and challenges of PMU on overhead lines: A survey. , 2016, , .		6
111	High Voltage AC underground cable systems for power transmission " A review of the Danish experience: Part 2. Electric Power Systems Research, 2016, 140, 995-1004.	3.6	13
112	Modeling and identification of harmonic instability problems in wind farms. , 2016, , .		17
113	Decentralized adaptive overcurrent protection for medium voltage maritime power systems. , 2016, , .		6
114	Measurement of phase dependent impedance for 3-phase diode rectifier. , 2016, , .		1
115	Couplings in Phase Domain Impedance Modelling of Grid-Connected Converters. IEEE Transactions on Power Electronics, 2016, , 1-1.	7.9	194
116	Harmonic Stability Assessment for Multiparalleled, Grid-Connected Inverters. IEEE Transactions on Sustainable Energy, 2016, 7, 1388-1397.	8.8	111
117	Harmonic modelling, propagation and mitigation for large wind power plants connected via long HVAC cables: Review and outlook of current research. , 2016, , .		9
118	An improved current controller to ensure the robust performance of grid-connected converters under weak grid Conditions. , 2016, , .		9
119	A theoretical bilevel control scheme for power networks with large-scale penetration of distributed renewable resources. , 2016, , .		27
120	Small-signal model of a decoupled double synchronous reference frame current controller. , 2016, , .		2
121	Automatic voltage control (AVC) system under uncertainty from wind power. , 2016, , .		5
122	An initial topology of multi-terminal HVDC transmission system in Europe: A case study of the North-Sea region. , 2016, , .		19
123	A categorization of converter station controllers within multi-terminal DC transmission systems. , 2016, , .		7
124	Efficient approach for harmonic resonance identification of large Wind Power Plants. , 2016, , .		13
125	Power system unbalance due to railway electrification: Review of challenges and outlook of the Danish case. , 2016, , .		15
126	Multi-objective optimization of large wind farm parameters for harmonic instability and resonance conditions. , 2016, , .		9

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127	Modeling of HVDC in Dynamic State Estimation using Unscented Kalman Filter method. , 2016, , .		7
128	Comparison of LTI and LTP models for stability analysis of grid converters. , 2016, , .		11
129	Harmonic Instability Analysis of a Single-Phase Grid-Connected Converter Using a Harmonic State-Space Modeling Method. IEEE Transactions on Industry Applications, 2016, 52, 4188-4200.	4.9	70
130	Multi-Stage Optimization Based Automatic Voltage Control Systems Considering Wind Power Forecasting Errors. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	21
131	Evaluation of core loss in magnetic materials employed in utility grid AC filters. , 2016, , .		10
132	High voltage AC underground cable systems for power transmission – A review of the Danish experience, part 1. Electric Power Systems Research, 2016, 140, 984-994.	3.6	17
133	A Review of Passive Power Filters for Three-Phase Grid-Connected Voltage-Source Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 54-69.	5.4	361
134	Decentralized Coordination of Load Shedding and Plant Protection Considering High Share of RESs. IEEE Transactions on Power Systems, 2016, 31, 3607-3615.	6.5	30
135	Optimal Design of High-Order Passive-Damped Filters for Grid-Connected Applications. IEEE Transactions on Power Electronics, 2016, 31, 2083-2098.	7.9	240
136	Improved LVRT grid code under Islanding condition. , 2015, , .		3
137	Analysis of harmonic coupling and stability in back-to-back converter systems for wind turbines using Harmonic State Space (HSS). , 2015, , .		4
138	Harmonic instability analysis of single-phase grid connected converter using Harmonic State Space (HSS) modeling method. , 2015, , .		8
139	Harmonic interaction analysis in grid connected converter using Harmonic State Space (HSS) modeling. , 2015, , .		16
140	Regional modeling approach for analyzing harmonic stability in radial power electronics based power system. , 2015, , .		13
141	Robust fallback scheme for the Danish automatic voltage control system. , 2015, , .		3
142	Precise model analysis for 3-phase high power converter using the Harmonic State Space modeling. , 2015, , .		1
143	Multi-period optimization for Voltage Control system in transmission grids. , 2015, , .		3
144	Malfunction operation of LVRT capability of Wind Turbines under islanding conditions. , 2015, , .		4

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145	Review of network topologies and protection principles in marine and offshore applications. , 2015, , .		5
146	Adaptive Tuning of Frequency Thresholds Using Voltage Drop Data in Decentralized Load Shedding. IEEE Transactions on Power Systems, 2015, 30, 2055-2062.	6.5	57
147	Modeling and grid impedance variation analysis of parallel connected grid connected inverter based on impedance based harmonic analysis. , 2014, , .		0
148	Comparative evaluation of passive damping topologies for parallel grid-connected converters with LCL filters. , 2014, , .		26
149	A systematic approach for dynamic security assessment and the corresponding preventive control scheme based on decision trees. , 2014, , .		10
150	Comparative analysis of the selective resonant LCL and LCL plus trap filters. , 2014, , .		6
151	A review of passive filters for grid-connected voltage source converters. , 2014, , .		57
152	Instability of Wind Turbine Converters During Current Injection to Low Voltage Grid Faults and PLL Frequency Based Stability Solution. IEEE Transactions on Power Systems, 2014, 29, 1683-1691.	6.5	238
153	Electromagnetic Transients in Power Cables. Power Systems, 2013, , .	0.5	33
154	Statistical Distribution of Energization Overvoltages of EHV Cables. IEEE Transactions on Power Delivery, 2013, 28, 1423-1432.	4.3	18
155	Wind turbine converter control interaction with complex wind farm systems. IET Renewable Power Generation, 2013, 7, 380-389.	3.1	67
156	Energization of long HVAC cables in parallel " Analysis and estimation formulas. Electric Power Systems Research, 2013, 96, 150-156.	3.6	1
157	Dynamic security assessment of Danish power system based on decision trees: Today and tomorrow. , 2013, , .		6
158	Impact of wind power plant reactive current injection during asymmetrical grid faults. IET Renewable Power Generation, 2013, 7, 484-492.	3.1	34
159	Importance sampling based decision trees for security assessment and the corresponding preventive control schemes: The Danish case study. , 2013, , .		7
160	Transient Studies in Large Offshore Wind Farms Employing Detailed Circuit Breaker Representation. Energies, 2012, 5, 2214-2231.	3.1	18
161	Practical testing and performance analysis of Phasor Measurement Unit using real time digital simulator (RTDS). , 2012, , .		6
162	Experimental determination of harmonic conditions amplification in a distribution network by capacitor bank switching. , 2012, , .		7

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163	Review on multi-level voltage source converter based HVDC technologies for grid connection of large offshore wind farms. , 2012, , .		57
164	GPS Synchronization and EMC of Harmonic and Transient Measurement Equipment in Offshore Wind Farms. Energy Procedia, 2012, 24, 212-228.	1.8	1
165	Transient stability assessment of power system with large amount of wind power penetration: The Danish case study. , 2012, , .		11
166	Derivation of Theoretical Formulas of the Frequency Component Contained in the Overvoltage Related to Long EHV Cables. IEEE Transactions on Power Delivery, 2012, 27, 866-876.	4.3	17
167	Adaptive voltage stability protection based on load identification using Phasor Measurement Units. , 2011, , .		6
168	Field Test and Simulation of a 400-kV Cross-Bonded Cable System. IEEE Transactions on Power Delivery, 2011, 26, 1403-1410.	4.3	57
169	A Simple Adaptive Overcurrent Protection of Distribution Systems With Distributed Generation. IEEE Transactions on Smart Grid, 2011, 2, 428-437.	9.0	385
170	The impact of harmonics calculation methods on power quality assessment in wind farms. , 2010, , .		5
171	Methods to Minimize Zero-Missing Phenomenon. IEEE Transactions on Power Delivery, 2010, 25, 2923-2930.	4.3	13
172	Overvoltage Protection of Large Power Transformersâ€™A Real-Life Study Case. IEEE Transactions on Power Delivery, 2008, 23, 657-666.	4.3	14
173	Hybrid time/frequency domain modelling of nonlinear components. , 2007, , .		3