

Christian Rehtanz

List of Publications by Year in descending order

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Version: 2024-02-01

334
papers

4,475
citations

182225

30
h-index

190340

53
g-index

338
all docs

338
docs citations

338
times ranked

3523
citing authors

#	ARTICLE	IF	CITATIONS
1	Network-adaptive and capacity-efficient electric vehicle charging site. IET Generation, Transmission and Distribution, 2022, 16, 548-560.	1.4	7
2	A dynamic corrective control method for congestion mitigation of hybrid AC/DC power systems. International Journal of Electrical Power and Energy Systems, 2022, 134, 107376.	3.3	4
3	Joint corrective optimization based on VSC-HVDC and distributed energy storage for power system security enhancement. International Journal of Electrical Power and Energy Systems, 2022, 135, 107573.	3.3	4
4	A non-intrusive load state identification method considering non-local spatiotemporal feature. IET Generation, Transmission and Distribution, 2022, 16, 792-803.	1.4	2
5	Design and optimal energy management of community microgrids with flexible renewable energy sources. Renewable Energy, 2022, 183, 903-921.	4.3	73
6	Collaborative EV Routing and Charging Scheduling With Power Distribution and Traffic Networks Interaction. IEEE Transactions on Power Systems, 2022, 37, 3923-3936.	4.6	27
7	Development of an open framework for a qualitative and quantitative comparison of power system and electricity grid models for Europe. Renewable and Sustainable Energy Reviews, 2022, 159, 112055.	8.2	5
8	Low-Frequency Oscillation Analysis of Virtual-Inertia-Controlled DC Microgrids Based on Multi-Timescale Impedance Model. IEEE Transactions on Sustainable Energy, 2022, 13, 1536-1552.	5.9	9
9	Assessing the influence of the temporal resolution on the electric vehicle charging load modeling accuracy. Electric Power Systems Research, 2022, 208, 107913.	2.1	7
10	Assessing the influence of electric vehicle charging profile modelling methods. IET Generation, Transmission and Distribution, 2022, 16, 3027-3035.	1.4	2
11	Experimental verification of smart grid control functions on international grids using a real-time simulator. IET Generation, Transmission and Distribution, 2022, 16, 2747-2760.	1.4	4
12	Data-driven intelligent EV charging operating with limited chargers considering the charging demand forecasting. International Journal of Electrical Power and Energy Systems, 2022, 141, 108218.	3.3	9
13	Curative measures identification in congestion management exploiting temporary admissible thermal loading of overhead lines. IET Generation, Transmission and Distribution, 2022, 16, 3171-3183.	1.4	7
14	Practical Integration of an adaptive Subgrid Identification System in Medium Voltage Smartgrids based on Machine Learning and Virtualization Solutions. , 2022, , .		0
15	A Hybrid Model for Analysing Disturbance Propagation in Cyber-Physical Energy Systems. Electric Power Systems Research, 2022, 212, 108356.	2.1	4
16	A planning strategy considering multiple factors for electric vehicle charging stations along German motorways. International Journal of Electrical Power and Energy Systems, 2021, 124, 106379.	3.3	37
17	Reactive Power Support Adequacy at the DSO/TSO Interface. Electric Power Systems Research, 2021, 190, 106661.	2.1	13
18	Optimizing line-voltage-regulators with regard to power quality. Electric Power Systems Research, 2021, 190, 106654.	2.1	2

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19	A strategy for access points selection and capacity configuration for the VSC-HVDC system considering overload scenarios alleviation. International Journal of Electrical Power and Energy Systems, 2021, 124, 106329.	3.3	11
20	Optimal EV Charging Scheduling by Considering the Limited Number of Chargers. IEEE Transactions on Transportation Electrification, 2021, 7, 1112-1122.	5.3	35
21	Forward to the EPSR Special Issue for PSCC 2020. Electric Power Systems Research, 2021, 191, 106827.	2.1	0
22	The Role of Fast Frequency Response of Energy Storage Systems and Renewables for Ensuring Frequency Stability in Future Low-Inertia Power Systems. Sustainability, 2021, 13, 5656.	1.6	11
23	State of Charge Influence on the Harmonic Distortion From Electric Vehicle Charging. IEEE Transactions on Industry Applications, 2021, 57, 2077-2088.	3.3	22
24	Short-term load forecasting at electric vehicle charging sites using a multivariate multi-step long short-term memory: A case study from Finland. IET Electrical Systems in Transportation, 2021, 11, 405-419.	1.5	20
25	Overview of key indicators for the categorisation and characterisation of distribution grids. , 2021, , .		0
26	Dynamic Power Electronic Load Model for Transient Stability Analyses. , 2021, , .		0
27	Mitigation of Voltage Unbalances Using a Line Voltage Regulator. , 2021, , .		3
28	Analysis of instability causes in the bi-directional converter and enhancing its performance by improving the damping in the IDA-PBC control. IET Generation, Transmission and Distribution, 2021, 15, 2411-2421.	1.4	2
29	Electric Vehicles as a Flexibility Provider: Optimal Charging Schedules to Improve the Quality of Charging Service. Electricity, 2021, 2, 225-243.	1.4	8
30	Development of a dynamic Combined Heat and Power Plant and Flywheel Energy Storage System Model validated with Field Tests. , 2021, , .		0
31	Foundation for adaptive charging solutions: Optimised use of electric vehicle charging capacity. IET Smart Grid, 2021, 4, 599-611.	1.5	8
32	A Virtual Inertia and Damping Control to Suppress Voltage Oscillation in Islanded DC Microgrid. IEEE Transactions on Energy Conversion, 2021, 36, 1711-1721.	3.7	27
33	Overcoming non-idealities in electric vehicle charging management. IET Electrical Systems in Transportation, 2021, 11, 310-321.	1.5	8
34	Energy Management using Industrial Flexibility with Multi-objective Distributed Optimization. , 2021, , .		4
35	Anatomy of electric vehicle fast charging: Peak shaving through a battery energy storage – A case study from Oslo. IET Electrical Systems in Transportation, 2021, 11, 69-80.	1.5	5
36	Monitoring of power system dynamics under incomplete PMU observability condition. IET Generation, Transmission and Distribution, 2021, 15, 1435-1450.	1.4	1

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37	Robust state estimation of electricity-gas-heat integrated energy system based on the bilinear transformations. IET Generation, Transmission and Distribution, 2021, 15, 149-163.	1.4	13
38	Live Testing of Flexibilities on Distribution Grid Level - Simulation Setup and Lessons Learned. , 2021, , .		0
39	Development of an Automated Grid Expansion Algorithm with Flexibility Consideration in Interlinked High Voltage Grids. , 2021, , .		0
40	Modelling of Microgrid Benchmark Networks Based on the SimBench Data Set. , 2021, , .		1
41	Management of Voltage Flexibility from Inverter-Based Distributed Generation Using Multi-Agent Reinforcement Learning. Energies, 2021, 14, 8270.	1.6	8
42	Probabilistic Preassessment Method of Parameter Identification Accuracy With an Application to Identify the Drive Train Parameters of DFIG. IEEE Transactions on Power Systems, 2020, 35, 1769-1782.	4.6	11
43	SimBench- A Benchmark Dataset of Electric Power Systems to Compare Innovative Solutions Based on Power Flow Analysis. Energies, 2020, 13, 3290.	1.6	96
44	Investigation on the suitability of equivalent models of subtransmission level for security analyses at transmission level. Electric Power Systems Research, 2020, 189, 106712.	2.1	0
45	Modelling and analysis of radial distribution network with high penetration of renewable energy considering the time series characteristics. IET Generation, Transmission and Distribution, 2020, 14, 2800-2809.	1.4	16
46	The smart power cell concept: mastering TSO-DSO interactions for the secure and efficient operation of future power systems. IET Generation, Transmission and Distribution, 2020, 14, 2407-2418.	1.4	14
47	Real-Time Control of Plug-in Electric Vehicles for Congestion Management of Radial LV Networks: A Comparison of Implementations. Energies, 2020, 13, 4227.	1.6	3
48	An Emergency Collaborative Scheduling Optimization Method based on VSC-HVDC Systems. , 2020, , .		0
49	Impact of Increased ICT Latency on Active Distribution Network Control. , 2020, , .		4
50	An Intelligent Measurement and Control Device for Active Distribution Grids. , 2020, , .		2
51	The "Short-term Isolated Star Point Grounding" to Detect Earth Faults in Compensated Networks - The Concept. , 2020, , .		3
52	Transactive energy system: a review of cyber-physical infrastructure and optimal scheduling. IET Generation, Transmission and Distribution, 2020, 14, 173-179.	1.4	17
53	Modeling of Wind Speeds Inside a Wind Farm With Application to Wind Farm Aggregate Modeling Considering LVRT Characteristic. IEEE Transactions on Energy Conversion, 2020, 35, 508-519.	3.7	28
54	Real-time agent-based control of plug-in electric vehicles for voltage and thermal management of LV networks: formulation and HIL validation. IET Generation, Transmission and Distribution, 2020, 14, 2169-2180.	1.4	8

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55	Quantification of peak shaving capacity in electric vehicle charging “ findings from case studies in Helsinki Region. IET Smart Grid, 2020, 3, 777-785.	1.5	5
56	JADE-Based Information Physical System Co-simulation Environment for Smart Distribution Networks. , 2020, , 163-176.		0
57	Reliability Analysis of Cyber-Physical Systems in Substation. , 2020, , 103-117.		0
58	Simplified Co-simulation Model for Investigating Impacts of Cyber-Contingency. , 2020, , 139-161.		0
59	Impacts of EPON-Based Communication Networks on Differential Protection of Smart Distribution Networks. , 2020, , 55-73.		1
60	State description of cyber-physical energy systems. Energy Informatics, 2020, 3, .	1.4	4
61	A Novel Method for Earth Fault Distance Calculation in Compensated Grids Using Symmetrical Components. , 2020, , .		2
62	Analysis of Impedance Characteristic and Wideband Oscillation Mechanism of Charging Station DC-MG with Virtual Inertia. , 2020, , .		0
63	Aggregated Power Quality Indicator for Controlling a Hybrid Compensation System Providing System Services. , 2020, , .		0
64	Comparison of Different Algorithms for Earth Fault Distance Calculation in Compensated Grids Using Symmetrical Components and Difference Values. , 2020, , .		0
65	Optimal energy management for the residential MES. IET Generation, Transmission and Distribution, 2019, 13, 1786-1793.	1.4	31
66	An OLTC-inverter coordinated voltage regulation method for distribution network with high penetration of PV generations. International Journal of Electrical Power and Energy Systems, 2019, 113, 991-1001.	3.3	29
67	Hardware-in-the-Loop Simulation of a Battery Energy Storage System and External Storage Controller to provide Primary Control. , 2019, , .		3
68	Impact of Varying Shares of Distributed Energy Resources on Voltage Stability in Electric PowerSystems. , 2019, , .		3
69	Provision of Ancillary Services by different Decentralized Energy Resources. , 2019, , .		9
70	Control of a Hybrid Energy Storage System for a Hybrid Compensation System. Chemical Engineering and Technology, 2019, 42, 1879-1885.	0.9	1
71	Coordinated voltage regulation using distributed measurement acquisition devices with a real-time model of the Cigré low-voltage benchmark grid. IET Generation, Transmission and Distribution, 2019, 13, 710-716.	1.4	8
72	Impact of a Minimum Remaining Available Margin Adjustment in Flow-Based Market Coupling. , 2019, , .		8

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73	A novel method to reduce the harmonic currents in the residual earth fault current during a single phase to ground fault in compensated grids. , 2019, , .		4
74	A Voltage Support Method for Point of Common Coupling Considering the Internal of Active Distribution Network. , 2019, , .		1
75	Application of the Non-Linear Optimization Algorithm Differential Evolution for Optimization of Manufacturing Systems Regarding Their Energy Efficiency. , 2019, , .		1
76	Low Voltage Benchmark Distribution Network Models Based on Publicly Available Data. , 2019, , .		12
77	A Method for Selecting Critical Transmission Grid Usage Cases. , 2019, , .		0
78	Real-time State Estimation in a System Partially Observed by PMUs: A Coherency Data Mining Based Approach. , 2019, , .		2
79	Automated Application Oriented Testing using Real Power Network Models for Combined Protection and Control Systems. , 2019, , .		1
80	Power Quality Survey of Industrial Large-power DC Supply System. , 2019, , .		0
81	Optimal Power Setting based on Voltage Angle Controller for VSC-HVDC in Hybrid AC and DC Power Systems. , 2019, , .		1
82	Dynamic Analysis of Voltage Control Strategies by Decentralized Energy Resources. , 2019, , .		0
83	Analysis of State Uncertainty for Distribution System State Estimation. , 2019, , .		0
84	Multivariable control of active distribution networks for TSO-DSO-coordinated operation in wide-area power systems. Automatisierungstechnik, 2019, 67, 904-911.	0.4	2
85	Analysis of the stability and dynamic responses of converter-based generation in case of system splits. IET Generation, Transmission and Distribution, 2019, 13, 3696-3703.	1.4	3
86	A Virtual Synchronous Generator Control Strategy for VSC-MTDC Systems. IEEE Transactions on Energy Conversion, 2018, 33, 750-761.	3.7	133
87	Virtual Synchronous Generator Control for Damping DC-Side Resonance of VSC-MTDC System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1054-1064.	3.7	32
88	Equivalent modeling of wind energy conversion considering overall effect of pitch angle controllers in wind farm. Applied Energy, 2018, 222, 485-496.	5.1	27
89	Interfacing Power System and ICT Simulators: Challenges, State-of-the-Art, and Case Studies. IEEE Transactions on Smart Grid, 2018, 9, 14-24.	6.2	77
90	Adaptive Droop Control of VSC-MTDC System for Frequency Support and Power Sharing. IEEE Transactions on Power Systems, 2018, 33, 1264-1274.	4.6	144

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91	Storage Valuation in Congested Grids. IEEE Transactions on Smart Grid, 2018, 9, 6742-6751.	6.2	12
92	Modelling of Active Distribution Networks and its Impact on the Performance of Emergency Controls. , 2018, , .		3
93	Impact of Constrained Observability on Flexibility in Distribution System Operation. , 2018, , .		0
94	Advancements in Distributed Power Flow Control. , 2018, , .		3
95	k-means based identification of common supply tasks for low voltage grids. , 2018, , .		5
96	A hybrid compensation system for provision of ancillary services in medium voltage grids. , 2018, , .		4
97	Modular Configurable and Testable Automation Architecture for future Active Electrical Energy Grids. , 2018, , .		3
98	Hierarchical Distribution Network Control Scheme for Power Flow Regulation at the Interconnection Points between several Voltage Levels. , 2018, , .		5
99	Smart Grid Technology Lab â€” A Full-Scale Low Voltage Research Facility at TU Dortmund University. , 2018, , .		11
100	Understanding DCâ€”side highâ€”frequency resonance in MMCâ€”HVDC system. IET Generation, Transmission and Distribution, 2018, 12, 2247-2255.	1.4	4
101	Agentâ€”based identification and control of voltage emergency situations. IET Generation, Transmission and Distribution, 2018, 12, 1446-1454.	1.4	4
102	An adaptive zone-division approach for voltage control of power grid with distributed wind farms: A case study of a regional power grid in central south China. International Journal of Electrical Power and Energy Systems, 2018, 103, 652-659.	3.3	15
103	DC-sensitivities for impedance controllers in an agent-based power flow control system. , 2018, , .		3
104	Cascading Failure Analysis of Cyber Physical Power System With Multiple Interdependency and Control Threshold. IEEE Access, 2018, 6, 39353-39362.	2.6	33
105	Design and Implementation of Delay-Dependent Wide-Area Damping Control for Stability Enhancement of Power Systems. IEEE Transactions on Smart Grid, 2017, 8, 1831-1842.	6.2	60
106	Reactive Power Compensation and Negative-Sequence Current Suppression System for Electrical Railways With YNvd-Connected Balance Transformerâ€”Part II: Implementation and Verification. IEEE Transactions on Power Electronics, 2017, 32, 9031-9042.	5.4	6
107	A non-communication methodology for distributed network topology recognition. , 2017, , .		1
108	Option games applied for investment in power generation capacity. , 2017, , .		0

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109	Enhancement to the combination of point estimate method and Gram-Charlier Expansion method for probabilistic load flow computations. , 2017, , .		5
110	Comparison between CHIL simulation and hardware test of a Dynamic Power Flow Controller. , 2017, , .		6
111	Co-simulation of distributed control system based on JADE for smart distribution networks with distributed generations. IET Generation, Transmission and Distribution, 2017, 11, 3097-3105.	1.4	12
112	Application of a combined electro-thermal overhead line model in power flow and time-domain power system simulations. IET Generation, Transmission and Distribution, 2017, 11, 2041-2049.	1.4	17
113	The Generation of Distribution Grid Models on the Basis of Public Available Data. IEEE Transactions on Power Systems, 2017, 32, 2346-2353.	4.6	28
114	A Virtual Impedance Comprehensive Control Strategy for the Controllably Inductive Power Filtering System. IEEE Transactions on Power Electronics, 2017, 32, 920-926.	5.4	65
115	Transformation of electric power system models into information and communication system models. , 2017, , .		0
116	Holistic network planning approach: enhancement of the grid expansion using the flexibility of network participants. CIRED - Open Access Proceedings Journal, 2017, 2017, 2312-2315.	0.1	0
117	An integrated optimization approach for multi-voltage level network expansion planning. , 2017, , .		1
118	Application of time-resolved input data for smart grid simulation. CIRED - Open Access Proceedings Journal, 2017, 2017, 2106-2109.	0.1	0
119	The generation of distribution grid models on the basis of public available data. , 2017, , .		0
120	Flexibility of the distribution grid for system stability. , 2016, , .		1
121	Distribution network control scheme for power flow regulation at the interconnection point between transmission and distribution system. , 2016, , .		17
122	Integration of smart grid technologies for voltage regulation in low voltage distribution grids. , 2016, , .		6
123	Current modulated messages generated by PFC circuits for allocating appliances with management systems in smart grid applications. , 2016, , .		2
124	Consideration of smart-meter measurements in a multi-agent simulation environment for improving distribution grid planning. , 2016, , .		2
125	Agent-Based Modelling of Cost Efficient and Stable Transmission Grid Expansion Planning. Communications in Computer and Information Science, 2016, , 356-368.	0.4	0
126	Inverter-based hybrid compensation systems contributing to grid stabilization in medium voltage distribution networks with decentralized, renewable generation. Electrical Engineering, 2016, 98, 355-362.	1.2	12

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127	Transmission system congestion analysis based on a European electricity market and network simulation framework. , 2016, , .		9
128	Integral distribution grid planning process considering the impact of heat pump systems. , 2016, , .		1
129	Assessment of capacity management approaches in distribution grids. , 2016, , .		2
130	Synchrophasor based thermal overhead line monitoring considering line spans and thermal transients. IET Generation, Transmission and Distribution, 2016, 10, 1232-1239.	1.4	9
131	Aggregation of large-scale electrical energy transmission networks. , 2016, , .		5
132	Real-time and co-simulations for the development of power system monitoring, control and protection. , 2016, , .		21
133	Implementation and validation of decentralized smart grid functions using distributed measurement acquisition devices. , 2016, , .		4
134	Planning process for distribution grids based on flexibly generated time series considering RES, DSM and storages. IET Generation, Transmission and Distribution, 2016, 10, 3405-3412.	1.4	15
135	Stochastic simulation of thermal load profiles. , 2016, , .		1
136	Agent-based prevention of voltage collapse in electrical transmission systems. , 2016, , .		7
137	European electricity market and network simulation for energy system analysis. , 2016, , .		9
138	An Inductively Filtered Multiwinding Rectifier Transformer and Its Application in Industrial DC Power Supply System. IEEE Transactions on Industrial Electronics, 2016, 63, 3987-3997.	5.2	18
139	Ultra high speed deterministic algorithm for transmission lines disturbance identification based on principal component analysis and Euclidean norm. International Journal of Electrical Power and Energy Systems, 2016, 80, 312-324.	3.3	11
140	Assessment and Choice of Input Signals for Multiple Wide-Area Damping Controllers. Power Systems, 2016, , 137-154.	0.3	0
141	Design and Implementation of Delay-Dependent Wide-Area Damping Control for Stability Enhancement of Power Systems. Power Systems, 2016, , 179-202.	0.3	3
142	Oscillation Model Identification Based on Nonlinear Hybrid Method (NHM). Power Systems, 2016, , 59-74.	0.3	0
143	Smart Grids. Automatisierungstechnik, 2015, 63, 867-868.	0.4	0
144	About the relationship of line overload cascading and loss of synchronism in electric power systems. , 2015, , .		2

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145	Measuring delays of ethernet communication for distributed real-time applications using carrier sense. , 2015, , .		0
146	Analyzing the impact of forecasting errors on redispatch and control reserve activation in congested transmission networks. , 2015, , .		3
147	Development of a hybrid platform for automated type and online application testing of protection & control schemes. , 2015, , .		3
148	An integral engineering process for centralised protection & control systems according to IEC 61850-6. , 2015, , .		4
149	Evaluating the performance of decentralized analyses of voltage stability and power flows. , 2015, , .		5
150	European electricity market simulation for future scenarios with high renewable energy production. , 2015, , .		9
151	Agent-based redispatch for real-time overload relief in electrical transmission systems. , 2015, , .		12
152	On the problem of controlling shiftable prosumer devices with price signals. International Journal of Electrical Power and Energy Systems, 2015, 72, 83-90.	3.3	10
153	A New Integrated Hybrid Power Quality Control System for Electrical Railway. IEEE Transactions on Industrial Electronics, 2015, 62, 6222-6232.	5.2	48
154	Validation of ICT-based protection and control applications in electric power systems. , 2015, , .		5
155	A valuation method for demand side management with heat supply systems and the influence of optimization strategies. , 2015, , .		0
156	A random forest-based approach for voltage security monitoring in a power system. , 2015, , .		12
157	Involving residual load intraday forecast for network reconfiguration. , 2015, , .		1
158	Exchangeability of power flow simulators in smart grid co-simulations with mosaik. , 2015, , .		22
159	A Y-D Multi-function Balance Transformer Based Power Quality Control System for Single-phase Power Supply System. IEEE Transactions on Industry Applications, 2015, , 1-1.	3.3	5
160	A New Railway Power Flow Control System Coupled With Asymmetric Double LC Branches. IEEE Transactions on Power Electronics, 2015, 30, 5484-5498.	5.4	31
161	Comparison between Principal Component Analysis and Wavelet Transform Filtering Methods for Lightning Stroke Classification on Transmission Lines. Electric Power Systems Research, 2015, 118, 37-46.	2.1	8
162	Geschäftsmodelle für die Versorgung von Haushaltskunden mit Eigenerzeugung, Elektrofahrzeug und stationärem Speicher. , 2015, , 111-116.		0

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163	Planung und Betrieb von Smart Grids. , 2015, , 10-15.		0
164	Renewable energies in smart factories with electric vehicle fleets. , 2014, , .		5
165	Impact of controlled charging of an electrical vehicle fleet on business efficiency. , 2014, , .		3
166	Investigation of load-frequency-control with increasing penetration of converter-based generators. , 2014, , .		3
167	ICT based performance evaluation of control reserve provision using electric vehicles. , 2014, , .		2
168	Future demand for prospective providers of control reserves. , 2014, , .		0
169	Novel methodology for analysis and study of distribution feeder performance against lightning disturbances. , 2014, , .		0
170	Response Based System Protection Scheme Against Line Overload Cascades. , 2014, , .		5
171	Forecast-based network reconfiguration algorithm. , 2014, , .		1
172	Vertical provision of reactive power for voltage stability. , 2014, , .		9
173	On the problem of controlling shiftable prosumer devices with price signals. , 2014, , .		6
174	Inversiones flexibles en el sistema de transmisi#n bajo incertidumbre basado en opciones reales y teor#a de juegos contra la naturaleza. , 2014, , .		0
175	Fault Detection, Identification and Localization in medium-voltage networks using Fuzzy-Logic. , 2014, , .		3
176	Guest Editorial Modeling, Simulation, and Application of Cyber-Physical Energy Systems. IEEE Transactions on Industrial Informatics, 2014, 10, 2244-2246.	7.2	11
177	Charging optimization due to a fuzzy feedback controlled charging algorithm. , 2014, , .		6
178	Preventing large-scale blackouts in power systems under uncertainty. , 2014, , .		2
179	Time series based distribution grid planning approach with decentralised voltage regulation. , 2014, , .		9
180	The impact of forecasting errors and remedial actions on operational security and efficiency in classical and probabilistic market coupling. , 2014, , .		2

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181	Evaluation of storage systems in distribution networks by means of an agent-based simulation system. , 2014, , .		1
182	Energie- und Informationsnetze. Automatisierungstechnik, 2014, 62, 313-314.	0.4	1
183	Real options on power system planning under uncertainties and efficiency constraints. , 2014, , .		1
184	Impact of the integration of renewable energies on the reactive power demand in the German transmission grid. , 2014, , .		1
185	Classification of lightning stroke on transmission line using multi-resolution analysis and machine learning. International Journal of Electrical Power and Energy Systems, 2014, 58, 19-31.	3.3	20
186	Analyzing Cyber-Physical Energy Systems:The INSPIRE Cosimulation of Power and ICT Systems Using HLA. IEEE Transactions on Industrial Informatics, 2014, 10, 2364-2373.	7.2	129
187	Testing environment for Vehicle to Grid (V2G) applications for investigating a voltage stability support method. , 2014, , .		7
188	Low voltage grid simulation environment for testing electric mobility hardware. , 2014, , .		2
189	A Hardware-in-the-Loop co-simulation architecture for power system applications in virtual execution environments. , 2014, , .		8
190	Identification of Lightning Stroke Due to Shielding Failure and Backflashover for Ultra-High-Speed Transmission-Line Protection. IEEE Transactions on Power Delivery, 2014, 29, 2008-2017.	2.9	59
191	A New Half-Bridge Winding Compensation-Based Power Conditioning System for Electric Railway with LQRI. IEEE Transactions on Power Electronics, 2014, 29, 5242-5256.	5.4	22
192	Design of a Distance Protection Relay based on Industrial Automation Technology and IEC 61850. , 2014, , .		3
193	A Multiagent System for Adaptive Power Flow Control in Electrical Transmission Systems. IEEE Transactions on Industrial Informatics, 2014, 10, 2290-2299.	7.2	57
194	Chance-Constrained Optimization-Based Unbalanced Optimal Power Flow for Radial Distribution Networks. IEEE Transactions on Power Delivery, 2013, 28, 1855-1864.	2.9	65
195	Enhancement of Commutation Reliability of an HVDC Inverter by Means of an Inductive Filtering Method. IEEE Transactions on Power Electronics, 2013, 28, 4917-4929.	5.4	42
196	An Inductively Active Filtering Method for Power-Quality Improvement of Distribution Networks With Nonlinear Loads. IEEE Transactions on Power Delivery, 2013, 28, 2465-2473.	2.9	34
197	A hybrid method and its applications to analyse the low frequency oscillations in the interconnected power system. IET Generation, Transmission and Distribution, 2013, 7, 874-884.	1.4	14
198	Improved parameter estimation under non-stationary circumstances using segmentation and back projection. , 2013, , .		1

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199	Impact of regionalization methods on network development planning. , 2013, , .		5
200	Technical potential and revenue chances of flexible electricity generation and load devices. , 2013, , .		1
201	Load shifting of the households in the E-Energy project E-DeMa. , 2013, , .		4
202	Comparison of regionalization methods for network development planning. , 2013, , .		8
203	INSPIRE: Integrated co-simulation of power and ICT systems for real-time evaluation. , 2013, , .		46
204	Comparison between PCA and WT filtering methods for lightning stroke classification on transmission lines: Lightning stroke classification for protection relay. , 2013, , .		2
205	Large-Scale Modeling of Grid-Connected Electric Vehicles. IEEE Transactions on Power Delivery, 2013, 28, 894-902.	2.9	49
206	The Directional Feature of Current Transients, Application in High-Speed Transmission-Line Protection. IEEE Transactions on Power Delivery, 2013, 28, 1175-1182.	2.9	14
207	An intelligent security alert system for power system pre-emergency control. , 2013, , .		1
208	Real option valuation of FACTS investments based on the least square Monte Carlo method. , 2013, , .		2
209	Early detection of tree faults. , 2013, , .		0
210	Network reduction algorithm for smart grid applications. , 2013, , .		7
211	Techno-economic evaluation of corrective actions for efficient attainment of (N−1)-security in operation and planning. , 2013, , .		3
212	Investigation of the effect of current and voltage transformers' errors on a differential-like impedance relaying algorithm — Protection from a probabilistic view. , 2013, , .		0
213	Integrated coordination of AC power flow controllers and HVDC transmission by a multi-agent system. , 2013, , .		6
214	Having a cutting point — Testing and development environment at TU Dortmund University. , 2013, , .		0
215	Coordinated monitoring of large scale interconnected power systems. , 2013, , .		2
216	Pan-European market and network simulation model. , 2013, , .		15

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217	Network extension planning considering the uncertainty of feed-in from renewable energies. , 2013, , .		1
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