

Mario Paolone

List of Publications by Year in Descending Order

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Version: 2024-04-24

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

277
papers

6,575
citations

43
h-index

70
g-index

314
ext. papers

8,464
ext. citations

5.3
avg, IF

6.42
L-index

#	Paper	IF	Citations
277	A Data-Driven Fault Location Algorithm Based on the Electromagnetic Time Reversal in Mismatched Media. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	1
276	Harmonic Power-Flow Study of Polyphase Grids with Converter-Interfaced Distributed Energy Resources, Part II: Model Library and Validation. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	1
275	Harmonic Power-Flow Study of Polyphase Grids with Converter-Interfaced Distributed Energy Resources, Part I: Modelling Framework and Algorithm. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	1
274	Optimal Coordination of Phasor Data Concentrators in Hierarchical Synchrophasor Networks. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 2402-2412	10.7	1
273	Experimental facility for reduced scale model testing of hydraulic machines hybridized with a battery energy storage system. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 774, 012119 ³	10.7	3
272	Digitalization in hydropower generation: development and numerical validation of a model-based Smart Power Plant Supervisor. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 774, 012110 ⁷⁻³	10.7	3
271	Dispatch-aware planning of energy storage systems in active distribution network. <i>Electric Power Systems Research</i> , 2021 , 190, 106644	3.5	3
270	Optimal Allocation of ESSs in Active Distribution Networks to Achieve Their Dispatchability. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 2068-2081	7	3
269	Siting and Sizing of Energy Storage Systems: Towards a Unified Approach for Transmission and Distribution System Operators for Reserve Provision and Grid Support. <i>Electric Power Systems Research</i> , 2021 , 190, 106660	3.5	5
268	Optimal provision of concurrent primary frequency and local voltage control from a BESS considering variable capability curves: Modelling and experimental assessment. <i>Electric Power Systems Research</i> , 2021 , 190, 106643	3.5	9
267	Countrywide PV hosting capacity and energy storage requirements for distribution networks: The case of Switzerland. <i>Applied Energy</i> , 2021 , 281, 116010	10.7	8
266	Grid-Aware Distributed Model Predictive Control of Heterogeneous Resources in a Distribution Network: Theory and Experimental Validation. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1392-1402 ⁵⁻¹	10.7	3
265	A Closed Time-Reversal Cavity for Electromagnetic Waves in Transmission Line Networks. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 1621-1630	4.9	4
264	Leverage Point Identification Method for LAV-Based State Estimation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	2
263	A Real-time Synchrophasor Data Compression Method Using Singular Value Decomposition. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	1
262	Performance assessment of grid-forming and grid-following converter-interfaced battery energy storage systems on frequency regulation in low-inertia power grids. <i>Sustainable Energy, Grids and Networks</i> , 2021 , 27, 100496	3.6	7
261	Time-Synchronization Attack Detection in Unbalanced Three-Phase Systems. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 4460-4470	10.7	2

260	Operational-driven optimal-design of a hyperloop system. <i>Transportation Engineering</i> , 2021 , 5, 100079	3	0
259	Real-Time Control of Battery Energy Storage Systems to Provide Ancillary Services Considering Voltage-Dependent Capability of DC-AC Converters. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 4164-4175	10.7	2
258	Improving frequency containment reserve provision in run-of-river hydropower plants. <i>Sustainable Energy, Grids and Networks</i> , 2021 , 28, 100538	3.6	0
257	Compound Admittance Matrix Estimation of Three-Phase Untransposed Power Distribution Grids Using Synchrophasor Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-13	5.2	4
256	Characterization of Non-Stationary Signals in Electric Grids: a Functional Dictionary Approach. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	3
255	Properties of convex optimal power flow model based on power loss relaxation. <i>Electric Power Systems Research</i> , 2020 , 186, 106414	3.5	3
254	A receding horizon control approach for re-dispatching stochastic heterogeneous resources accounting for grid and battery losses. <i>Electric Power Systems Research</i> , 2020 , 185, 106340	3.5	2
253	Real-Time Processing and Quality Improvement of Synchrophasor Data. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3313-3324	10.7	6
252	Parameter Estimation of Three-Phase Untransposed Short Transmission Lines From Synchrophasor Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 6143-6154	5.2	9
251	Beyond Phasors: Modeling of Power System Signals Using the Hilbert Transform. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 2971-2980	7	10
250	Guest Editorial Theory and Application of PMUs in Power Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 723-725	10.7	1
249	Real-Time Control of an Electric Vehicle Charging Station While Tracking an Aggregated Power Setpoint. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 5750-5761	4.3	3
248	Photoproduction of Λ mesons off the proton for 1.2. <i>Physical Review C</i> , 2020 , 102,	2.7	1
247	Technologies for Integration of Large-Scale Distributed Generation and Volatile Loads in Distribution Grids: Technologies for Integration of Large-Scale Renewables Multi-slot EV Charging Stations in Distribution Grids. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 179-188	0.2	
246	PMU-based linear state estimation of Lausanne subtransmission network: Experimental validation. <i>Electric Power Systems Research</i> , 2020 , 189, 106649	3.5	9
245	Grid-aware distributed control of electric vehicle charging stations in active distribution grids. <i>Electric Power Systems Research</i> , 2020 , 189, 106697	3.5	5
244	Effect of voltage source converters with electrochemical storage systems on dynamics of reduced-inertia bulk power grids. <i>Electric Power Systems Research</i> , 2020 , 189, 106766	3.5	1
243	Electromagnetic Time Reversal Similarity Characteristics and Its Application to Locating Faults in Power Networks. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1735-1748	4.3	8

242	Frequency stability assessment of modern power systems: Models definition and parameters identification. <i>Sustainable Energy, Grids and Networks</i> , 2020 , 23, 100384	3.6	1
241	Fundamentals of power systems modelling in the presence of converter-interfaced generation. <i>Electric Power Systems Research</i> , 2020 , 189, 106811	3.5	43
240	OPF-based under frequency load shedding predicting the dynamic frequency trajectory. <i>Electric Power Systems Research</i> , 2020 , 189, 106748	3.5	4
239	Design and experimental validation of an FPGA-based PMU simultaneously compliant with P and M performance classes. <i>Electric Power Systems Research</i> , 2020 , 189, 106650	3.5	4
238	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 3412-3427	5.2	14
237	Microgrid Stability Definitions, Analysis, and Examples. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 13-29	7	159
236	Time reversal applied to fault location in power networks: Pilot test results and analyses. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 114, 105382	5.1	13
235	Impact of Synchrophasor Estimation Algorithms in ROCOF-Based Under-Frequency Load-Shedding. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 1305-1316	7	14
234	The White Rabbit Time Synchronization Protocol for Synchrophasor Networks. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 726-738	10.7	16
233	Properties of Direct-Time and Reversed-Time Transfer Functions to Locate Disturbances along Power Transmission Lines 2019 ,		1
232	Ultra Fast Linear State Estimation Utilizing SCADA Measurements. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2622-2631	7	19
231	PMU-Based ROCOF Measurements: Uncertainty Limits and Metrological Significance in Power System Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 3810-3822	5.2	40
230	On the Properties of the Compound Nodal Admittance Matrix of Polyphase Power Systems. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 444-453	7	10
229	Statistical Model of Measurement Noise in Real-World PMU-based Acquisitions 2019 ,		5
228	A Generalized Index for Static Voltage Stability of Unbalanced Polyphase Power Systems Including Thevenin Equivalents and Polynomial Models. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 4630-4639	7	7
227	Characterization of uncertainty contributions in a high-accuracy PMU validation system. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 146, 72-86	4.6	7
226	Solar irradiance estimations for modeling the variability of photovoltaic generation and assessing violations of grid constraints: A comparison between satellite and pyranometers measurements with load flow simulations. <i>Journal of Renewable and Sustainable Energy</i> , 2019 , 11, 056103	2.5	4
225	Taylor-Fourier PMU on a Real-Time Simulator: Design, Implementation and Characterization 2019 ,		9

224	Impact of Fundamental Frequency Definition in IpDFT-based PMU Estimates in Fault Conditions 2019 ,		2
223	Impact of Time Dissemination Technologies on Synchrophasor Estimation Accuracy 2019 ,		2
222	Influence of Battery Models on the Optimal Design of the Propulsion System of a Hyperloop Capsule 2019 ,		3
221	Performance Assessment of Linearized OPF-based Distributed Real-time Predictive Control 2019 ,		2
220	A Robust Optimization Framework for the Day-Ahead Scheduling of Active Distribution Networks including Energy Storage Systems 2019 ,		1
219	Optimal Design of the Propulsion System of a Hyperloop Capsule. <i>IEEE Transactions on Transportation Electrification</i> , 2019 , 5, 1406-1418	7.6	12
218	. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2103-2113	7	11
217	Reduced Leakage Synchrophasor Estimation: Hilbert Transform Plus Interpolated DFT. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 3468-3483	5.2	18
216	A Modified Formula for Distance Relaying of Tapped Transmission Lines With Grounded Neutrals. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 690-699	4.3	8
215	Controlling the Electrical State via Uncertain Power Injections in Three-Phase Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 1349-1362	10.7	4
214	Control of Battery Storage Systems for the Simultaneous Provision of Multiple Services. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2799-2808	10.7	50
213	Experimental Validation of a Steady State Model Synthesis Method for a Three-Phase Unbalanced Active Distribution Network Feeder. <i>IEEE Access</i> , 2018 , 6, 4042-4053	3.5	6
212	Vacuum circuit breaker modelling for the assessment of transient recovery voltages: Application to various network configurations. <i>Electric Power Systems Research</i> , 2018 , 156, 35-43	3.5	12
211	Concurrent Voltage Control and Dispatch of Active Distribution Networks by Means of Smart Transformer and Storage. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6657-6666	8.9	34
210	A Full-Scale Experimental Validation of Electromagnetic Time Reversal Applied to Locate Disturbances in Overhead Power Distribution Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 1562-1570	2	26
209	Unsupervised Disaggregation of Photovoltaic Production From Composite Power Flow Measurements of Heterogeneous Prosumers. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3904-3913	11.9	31
208	. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 4779-4791	11.9	4
207	A Comprehensive Assessment of the Short-Term Uncertainty of Grid-Connected PV Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1458-1467	8.2	16

206	Extension of the Unmatched-Media Time Reversal Method to Locate Soft Faults in Transmission Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 1539-1545	2	7
205	Iterative-Interpolated DFT for Synchrophasor Estimation: A Single Algorithm for P- and M-Class Compliant PMUs. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 547-558	5.2	71
204	Locating lightning strikes and flashovers along overhead power transmission lines using electromagnetic time reversal. <i>Electric Power Systems Research</i> , 2018 , 160, 282-291	3.5	9
203	Explicit Conditions on Existence and Uniqueness of Load-Flow Solutions in Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 953-962	10.7	51
202	Architecture and Experimental Validation of a Low-Latency Phasor Data Concentrator. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 2885-2893	10.7	24
201	A Decentralized Adaptive Model-Based Real-Time Control for Active Distribution Networks Using Battery Energy Storage Systems. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 3406-3418	10.7	35
200	. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 3530-3542	10.7	19
199	Voltage Control in Active Distribution Networks Under Uncertainty in the System Model: A Robust Optimization Approach. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 5631-5642	10.7	23
198	Photovoltaic-Model-Based Solar Irradiance Estimators: Performance Comparison and Application to Maximum Power Forecasting. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 35-44	8.2	25
197	Dispatching Stochastic Heterogeneous Resources Accounting for Grid and Battery Losses. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 6522-6539	10.7	21
196	An Exact Convex Formulation of the Optimal Power Flow in Radial Distribution Networks Including Transverse Components. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 682-697	5.9	45
195	On the Properties of the Power Systems Nodal Admittance Matrix. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1130-1131	7	14
194	Influencing the bulk power system reserve by dispatching power distribution networks using local energy storage. <i>Electric Power Systems Research</i> , 2018 , 163, 270-279	3.5	11
193	Optimal Planning of Distributed Energy Storage Systems in Active Distribution Networks Embedding Grid Reconfiguration. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1577-1590	7	81
192	Experimental Assessment of the Prediction Performance of Dynamic Equivalent Circuit Models of Grid-Connected Battery Energy Storage Systems 2018 ,		2
191	Under Frequency Load Shedding based on PMU Estimates of Frequency and ROCOF 2018 ,		5
190	Robust Real-Time Control of Power Grids in the Presence of Communication Network Non-Idealities 2018 ,		2
189	An ADMM-Based Coordination and Control Strategy for PV and Storage to Dispatch Stochastic Prosumers: Theory and Experimental Validation 2018 ,		3

188	Dispatch and Primary Frequency Control With Electrochemical Storage: A System-wise Verification 2018,		3
187	Synchrophasor-Based ROCOF Measurements: Feasibility in Real-World Scenarios 2018,		3
186	Quantification of Primary Frequency Control Provision from Battery Energy Storage Systems Connected to Active Distribution Networks 2018,		4
185	Service Restoration in DG-Integrated Distribution Networks Using an Exact Convex OPF Model 2018,		2
184	Electromagnetic Time Reversal Applied to Fault Location: On the Properties of Back-Injected Signals 2018,		10
183	Local estimation of the global horizontal irradiance using an all-sky camera. <i>Solar Energy</i> , 2018 , 173, 1225-1235	10	10
182	Enhancing the dispatchability of distribution networks through utility-scale batteries and flexible demand. <i>Energy and Buildings</i> , 2018 , 172, 125-138	7	8
181	Modeling of different charge transfer modes in upward flashes constrained by simultaneously measured currents and fields 2018,		7
180	Fault Detection and Faulted Line Identification in Active Distribution Networks Using Synchrophasors-Based Real-Time State Estimation. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 381-392	43	118
179	AC OPF in radial distribution networks [Part II: An augmented Lagrangian-based OPF algorithm, distributable via primal decomposition. <i>Electric Power Systems Research</i> , 2017 , 150, 24-35	3-5	16
178	Parameter identification of a lithium-ion cell single-particle model through non-invasive testing. <i>Journal of Energy Storage</i> , 2017 , 12, 138-148	7.8	18
177	Analysis of lightning-ionosphere interaction using simultaneous records of source current and 380 km distant electric field. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 159, 48-56	2	13
176	Definition of Accurate Reference Synchrophasors for Static and Dynamic Characterization of PMUs. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 2233-2246	5.2	27
175	Sequential Discrete Kalman Filter for Real-Time State Estimation in Power Distribution Systems: Theory and Implementation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 2358-2370	5.2	35
174	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 1601-1612	2	44
173	A Prediction-Error Covariance Estimator for Adaptive Kalman Filtering in Step-Varying Processes: Application to Power-System State Estimation. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1683-1697	4.8	35
172	AC OPF in radial distribution networks [Part I: On the limits of the branch flow convexification and the alternating direction method of multipliers. <i>Electric Power Systems Research</i> , 2017 , 143, 438-450	3-5	42
171	Dispatching active distribution networks through electrochemical storage systems and demand side management 2017,		2

170	Cloud Motion Identification Algorithms Based on All-Sky Images to Support Solar Irradiance Forecast 2017 ,		4
169	Real-time power-reference tracking method for PV converters 2017 ,		2
168	Single-end FPGA-based fault location system for radial/meshed AC/DC networks based on the electromagnetic time reversal theory 2017 ,		3
167	Assessment of the influence of losses on the performance of the electromagnetic time reversal fault location method 2017 ,		2
166	A high-performance, low-cost PMU prototype for distribution networks based on FPGA 2017 ,		20
165	Enhancing the provision of ancillary services from storage systems using smart transformer and smart meters 2017 ,		3
164	. <i>IEEE Transactions on Transportation Electrification</i> , 2017 , 3, 589-599	7.6	23
163	Existence and Uniqueness of Load-Flow Solutions in Three-Phase Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3319-3320	7	19
162	Assessment of the Influence of Losses on the Performance of the Electromagnetic Time Reversal Fault Location Method. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 2303-2312	4-3	33
161	A white rabbit synchronized PMU 2017 ,		6
160	Using electromagnetic time reversal to locate faults in transmission lines: Definition and application of the Mirrored Minimum Energy Property 2017 ,		15
159	Iterative-interpolated DFT for synchrophasor estimation in M-class compliant PMUs 2017 ,		5
158	Handling large power steps in real-time microgrid control via explicit power setpoints 2017 ,		2
157	Security Constrained Unit Commitment With Dynamic Thermal Line Rating. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 2014-2025	7	48
156	Fast initial continuous current pulses versus return stroke pulses in tower-initiated lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6425-6434	4-4	17
155	Achieving the Dispatchability of Distribution Feeders Through Prosumers Data Driven Forecasting and Model Predictive Control of Electrochemical Storage. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1762-1777	8.2	70
154	An automated FPGA real-time simulator for power electronics and power systems electromagnetic transient applications. <i>Electric Power Systems Research</i> , 2016 , 141, 147-156	3-5	16
153	Hardware-in-the-Loop validation of the Grid Explicit Congestion Notification mechanism for primary voltage control in Active Distribution Networks 2016 ,		3

152	. <i>IEEE Transactions on Transportation Electrification</i> , 2016 , 2, 407-416	7.6	5
151	Definition and assessment of reference values for PMU calibration in static and transient conditions 2016 ,		4
150	Locating Faults on Untransposed, Meshed Transmission Networks Using a Limited Number of Synchrophasor Measurements. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4462-4472	7	31
149	Performance Assessment of Linear State Estimators Using Synchrophasor Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016 , 65, 535-548	5.2	42
148	Model-free computation of ultra-short-term prediction intervals of solar irradiance. <i>Solar Energy</i> , 2016 , 124, 57-67	6.8	16
147	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016 , 58, 161-171	2	47
146	Evaluation of the performance characteristics of the European Lightning Detection Network EUCLID in the Alps region for upward negative flashes using direct measurements at the instrumented Sītis Tower. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 595-606	4.4	30
145	2016 ,		10
144	Aggregation of power capabilities of heterogeneous resources for real-time control of power grids 2016 ,		6
143	Voltage stability analysis using a complete model of grid-connected voltage-source converters 2016 ,		8
142	Load leveling and dispatchability of a medium voltage active feeder through battery energy storage systems: Formulation of the control problem and experimental validation 2016 ,		5
141	Bipolar lightning flashes observed at the Sītis Tower: Do we need to modify the traditional classification?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 14,117-14,126	4.4	6
140	Ultra-short-term prediction intervals of photovoltaic AC active power 2016 ,		5
139	Integration and Operation of Utility-Scale Battery Energy Storage Systems: the EPFL Experience. <i>IFAC-PapersOnLine</i> , 2016 , 49, 433-438	0.7	8
138	Modelling of current and temperature effects on supercapacitors ageing. Part II: State-of-Health assessment. <i>Journal of Energy Storage</i> , 2016 , 5, 95-101	7.8	16
137	Decentralized voltage control of clustered active distribution network by means of energy storage systems. <i>Electric Power Systems Research</i> , 2016 , 136, 370-382	3.5	36
136	Modelling of current and temperature effects on supercapacitors ageing. Part I: Review of driving phenomenology. <i>Journal of Energy Storage</i> , 2016 , 5, 85-94	7.8	13
135	Intra-day electro-thermal model predictive control for polygeneration systems in microgrids. <i>Energy</i> , 2016 , 104, 308-319	7.9	15

134	Irradiance prediction intervals for PV stochastic generation in microgrid applications. <i>Solar Energy</i> , 2016 , 139, 116-129	6.8	35
133	An adaptive model-based real-time voltage control process for Active Distribution Networks using Battery Energy Storage Systems 2016 ,		2
132	Model-less/measurement-based computation of voltage sensitivities in unbalanced electrical distribution networks 2016 ,		15
131	Network clustering for voltage control in active distribution network including energy storage systems 2015 ,		6
130	A composable method for real-time control of active distribution networks with explicit power setpoints. Part II: Implementation and validation. <i>Electric Power Systems Research</i> , 2015 , 125, 265-280	3.5	33
129	A composable method for real-time control of active distribution networks with explicit power setpoints. Part I: Framework. <i>Electric Power Systems Research</i> , 2015 , 125, 254-264	3.5	89
128	Optimal siting and sizing of distributed energy storage systems via alternating direction method of multipliers. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 72, 33-39	5.1	81
127	Real-Time Simulation Technologies for Power Systems Design, Testing, and Analysis. <i>IEEE Power and Energy Technology Systems Journal</i> , 2015 , 2, 63-73	4.3	227
126	Impact of synchrophasor measurement types and uncertainties on the accuracy of distribution system linear state estimators 2015 ,		3
125	Applications of Real-Time Simulation Technologies in Power and Energy Systems. <i>IEEE Power and Energy Technology Systems Journal</i> , 2015 , 2, 103-115	4.3	93
124	Electromagnetic time reversal applied to fault detection: The issue of losses 2015 ,		8
123	Integration of an IEEE Std. C37.118 compliant PMU into a real-time simulator 2015 ,		9
122	2015 ,		61
121	Real-time control of microgrids with explicit power setpoints: Unintentional islanding 2015 ,		4
120	A Hardware-in-the-Loop test platform for the performance assessment of a PMU-based Real-Time State Estimator for Active Distribution Networks 2015 ,		11
119	Macroscopic indicators of fault diagnosis and ageing in electrochemical double layer capacitors. <i>Journal of Energy Storage</i> , 2015 , 2, 8-24	7.8	17
118	Architecture and characterization of a calibrator for PMUs operating in power distribution systems 2015 ,		10
117	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 2134-2146	10.7	44

116	Integration of IEEE C37.118 and publish/subscribe communication 2015 ,		3
115	A supercapacitor agent for providing real-time power services to the grid 2015 ,		2
114	Integration of Transmission Lines Dynamic Thermal rating into real-time Optimal dispatching of power systems 2015 ,		6
113	Surface temperature estimation of li-ion battery via thermal impulse response technique 2015 ,		4
112	Control of a battery energy storage system accounting for the charge redistribution effect to dispatch the operation of a medium voltage feeder 2015 ,		2
111	Characteristics of electric fields of upward negative stepped leaders 2015 ,		4
110	Lightning Electromagnetic Fields and Their Induced Currents on Buried Cables. Part II: The Effect of a Horizontally Stratified Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 1146-1154 ²		28
109	. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 622-631	10.7	64
108	Information-centric networking for machine-to-machine data delivery: a case study in smart grid applications. <i>IEEE Network</i> , 2014 , 28, 58-64	11.4	53
107	Improvement of Dynamic Modeling of Supercapacitor by Residual Charge Effect Estimation. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 1345-1354	8.9	61
106	. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 2314-2325	10.7	37
105	Integrated voltage control and line congestion management in Active Distribution Networks by means of smart transformers 2014 ,		22
104	Inter-area frequency control reserve assessment regarding dynamics of cascading outages and blackouts. <i>Electric Power Systems Research</i> , 2014 , 107, 144-152	3.5	17
103	A model predictive control strategy for the space heating of a smart building including cogeneration of a fuel cell-electrolyzer system. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 62, 879-889	5.1	30
102	. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 2300-2310	7	265
101	Evaluation of Lightning-Induced Currents on Cables Buried in a Lossy Dispersive Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 1522-1529	2	17
100	A pre-estimation filtering process of bad data for linear power systems state estimators using PMUs 2014 ,		22
99	2014 ,		19

98	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 2824-2836	5.2	183
97	An update on the characteristics of positive flashes recorded on the Sŕtis Tower 2014 ,		4
96	Enhanced electrical model of Lithium-based batteries accounting the charge redistribution effect 2014 ,		11
95	Optimal siting and sizing of distributed energy storage systems via alternating direction method of multipliers 2014 ,		6
94	Stochastic day-ahead optimal scheduling of Active Distribution Networks with dispersed energy storage and renewable resources 2014 ,		5
93	Probabilistic assessment of the process-noise covariance matrix of discrete Kalman filter state estimation of active distribution networks 2014 ,		26
92	Electric space heating scheduling for real-time explicit power control in active distribution networks 2014 ,		1
91	Understanding the ageing process, recovering phase and fault diagnosis of electrochemical double layer capacitors 2014 ,		2
90	Fault location in multi-terminal HVDC networks based on Electromagnetic Time Reversal with limited time reversal window 2014 ,		21
89	A method for the assessment of the optimal parameter of discrete-time switch model. <i>Electric Power Systems Research</i> , 2014 , 115, 80-86	3-5	7
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