# Mario Paolone

List of Publications by Year
in descending order



| 311 | 9,947 | 43973 | 49773 |
|---|---|---|---|
| papers | citations | 48 h-index | 87 g-index |

| 314 | 314 | 314 | 6317 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Microgrid Stability Definitions, Analysis, and Examples. IEEE Transactions on Power Systems, 2020, 35, 13-29. | 4.6 | 422 |
| 2 | Real-Time Simulation Technologies for Power Systems Design, Testing, and Analysis. IEEE Power and Energy Technology Systems Journal, 2015, 2, 63-73. | 3.5 | 359 |
| 3 | Optimal Allocation of Dispersed Energy Storage Systems in Active Distribution Networks for Energy Balance and Grid Support. IEEE Transactions on Power Systems, 2014, 29, 2300-2310. | 4.6 | 336 |
| 4 | Enhanced Interpolated-DFT for Synchrophasor Estimation in FPGAs: Theory, Implementation, and Validation of a PMU Prototype. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2824-2836. | 2.4 | 268 |
| 5 | Continuous-Wavelet Transform for Fault Location in Distribution Power Networks: Definition of Mother Wavelets Inferred From Fault Originated Transients. IEEE Transactions on Power Systems, 2008, 23, 380-388. | 4.6 | 248 |
| 6 | Efficient Computation of Sensitivity Coefficients of Node Voltages and Line Currents in Unbalanced Radial Electrical Distribution Networks. IEEE Transactions on Smart Grid, 2013, 4, 741-750. | 6.2 | 219 |
| 7 | Short-Term Scheduling and Control of Active Distribution Systems With High Penetration of Renewable Resources. IEEE Systems Journal, 2010, 4, 313-322. | 2.9 | 209 |
| 8 | Synchronized Phasors Monitoring During the Islanding Maneuver of an Active Distribution Network. IEEE Transactions on Smart Grid, 2011, 2, 82-91. | 6.2 | 204 |
| 9 | Fault Detection and Faulted Line Identification in Active Distribution Networks Using Synchrophasors-Based Real-Time State Estimation. IEEE Transactions on Power Delivery, 2017, 32, 381-392. | 2.9 | 190 |
| 10 | Integrated Use of Time-Frequency Wavelet Decompositions for Fault Location in Distribution Networks: Theory and Experimental Validation. IEEE Transactions on Power Delivery, 2010, 25, 3139-3146. | 2.9 | 187 |
| 11 | An Efficient Method Based on the Electromagnetic Time Reversal to Locate Faults in Power Networks. IEEE Transactions on Power Delivery, 2013, 28, 1663-1673. | 2.9 | 160 |
| 12 | Mitigation of Lightning-Induced Overvoltages in Medium Voltage Distribution Lines by Means of Periodical Grounding of Shielding Wires and of Surge Arresters: Modeling and Experimental Validation. IEEE Transactions on Power Delivery, 2004, 19, 423-431. | 2.9 | 157 |
| 13 | An Improved Procedure for the Assessment of Overhead Line Indirect Lightning Performance and Its Comparison with the IEEE Std. 1410 Method. IEEE Transactions on Power Delivery, 2007, 22, 684-692. | 2.9 | 156 |
| 14 | Applications of Real-Time Simulation Technologies in Power and Energy Systems. IEEE Power and Energy Technology Systems Journal, 2015, 2, 103-115. | 3.5 | 149 |
| 15 | Optimal Planning of Distributed Energy Storage Systems in Active Distribution Networks Embedding Grid Reconfiguration. IEEE Transactions on Power Systems, 2018, 33, 1577-1590. | 4.6 | 134 |
| 16 | A Microcontroller-Based Power Management System for Standalone Microgrids With Hybrid Power Supply. IEEE Transactions on Sustainable Energy, 2012, 3, 422-431. | 5.9 | 132 |
| 17 | Iterative-Interpolated DFT for Synchrophasor Estimation: A Single Algorithm for P- and M-Class Compliant PMUs. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 547-558. | 2.4 | 128 |
| 18 | Lightning Induced Disturbances in Buried Cablesâ€"Part I: Theory. IEEE Transactions on Electromagnetic Compatibility, 2005, 47, 498-508. | 1.4 | 123 |

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| 19 | A composable method for real-time control of active distribution networks with explicit power setpoints. Part I: Framework. Electric Power Systems Research, 2015, 125, 254-264. | 2.1 | 113 |
| 20 | On the use of continuous-wavelet transform for fault location in distribution power systems. International Journal of Electrical Power and Energy Systems, 2006, 28, 608-617. | 3.3 | 108 |
| 21 | Fundamentals of power systems modelling in the presence of converter-interfaced generation. Electric Power Systems Research, 2020, 189, 106811. | 2.1 | 107 |
| 22 | Lightning Electromagnetic Field Coupling to Overhead Lines: Theory, Numerical Simulations, and Experimental Validation. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 532-547. | 1.4 | 99 |
| 23 | Optimal siting and sizing of distributed energy storage systems via alternating direction method of multipliers. International Journal of Electrical Power and Energy Systems, 2015, 72, 33-39. | 3.3 | 99 |
| 24 | Achieving the Dispatchability of Distribution Feeders Through Prosumers Data Driven Forecasting and Model Predictive Control of Electrochemical Storage. IEEE Transactions on Sustainable Energy, 2016, 7, 1762-1777. | 5.9 | 99 |
| 25 | Real-time state estimation of the EPFL-campus medium-voltage grid by using PMUs. , 2015, , . | | 94 |
| 26 | Lightning-Induced Overvoltages Transferred Through Distribution Power Transformers. IEEE Transactions on Power Delivery, 2009, 24, 360-372. | 2.9 | 93 |
| 27 | Lightning-induced voltages on complex distribution systems: models, advanced software tools and experimental validation. Journal of Electrostatics, 2004, 60, 163-174. | 1.0 | 92 |
| 28 | A Scale Model for the Study of the LEMP Response of Complex Power Distribution Networks. IEEE Transactions on Power Delivery, 2007, 22, 710-720. | 2.9 | 92 |
| 29 | External impedance and admittance of buried horizontal wires for transient studies using transmission line analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2007, 14, 751-761. | 1.8 | 91 |
| 30 | Control of Battery Storage Systems for the Simultaneous Provision of Multiple Services. IEEE Transactions on Smart Grid, 2019, 10, 2799-2808. | 6.2 | 88 |
| 31 | Evaluation of Lightning Electromagnetic Fields and Their Induced Voltages on Overhead Lines Considering the Frequency Dependence of Soil Electrical Parameters. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 1210-1219. | 1.4 | 86 |
| 32 | GECN: Primary Voltage Control for Active Distribution Networks via Real-Time Demand-Response. IEEE Transactions on Smart Grid, 2014, 5, 622-631. | 6.2 | 81 |
| 33 | Lightning Induced Disturbances in Buried Cablesâ€"Part II: Experiment and Model Validation. IEEE Transactions on Electromagnetic Compatibility, 2005, 47, 509-520. | 1.4 | 78 |
| 34 | Far-Fieldâ€"Current Relationship Based on the TL Model for Lightning Return Strokes to Elevated Strike Objects. IEEE Transactions on Electromagnetic Compatibility, 2005, 47, 146-159. | 1.4 | 76 |
| 35 | Improvement of Dynamic Modeling of Supercapacitor by Residual Charge Effect Estimation. IEEE Transactions on Industrial Electronics, 2014, 61, 1345-1354. | 5.2 | 76 |
| 36 | Information-centric networking for machine-to-machine data delivery: a case study in smart grid applications. IEEE Network, 2014, 28, 58-64. | 4.9 | 75 |

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| 37 | Security Constrained Unit Commitment With Dynamic Thermal Line Rating. IEEE Transactions on Power Systems, 2016, 31, 2014-2025. | 4.6 | 74 |
| 38 | Explicit Conditions on Existence and Uniqueness of Load-Flow Solutions in Distribution Networks. IEEE Transactions on Smart Grid, 2018, 9, 953-962. | 6.2 | 70 |
| 39 | An Exact Convex Formulation of the Optimal Power Flow in Radial Distribution Networks Including Transverse Components. IEEE Transactions on Automatic Control, 2018, 63, 682-697. | 3.6 | 69 |
| 40 | PMU-Based ROCOF Measurements: Uncertainty Limits and Metrological Significance in Power System Applications. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3810-3822. | 2.4 | 68 |
| 41 | An Information-Centric Communication Infrastructure for Real-Time State Estimation of Active Distribution Networks. IEEE Transactions on Smart Grid, 2015, 6, 2134-2146. | 6.2 | 61 |
| 42 | Performance Assessment of Linear State Estimators Using Synchrophasor Measurements. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 535-548. | 2.4 | 61 |
| 43 | State estimation of Active Distribution Networks: Comparison between WLS and iterated kalman-filter algorithm integrating PMUs. , 2012, , . | | 60 |
| 44 | A system for the measurements of lightning currents at the SÃntis Tower. Electric Power Systems Research, 2012, 82, 34-43. | 2.1 | 59 |
| 45 | An Alternative Method for Locating Faults in Transmission Line Networks Based on Time Reversal. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1601-1612. | 1.4 | 59 |
| 46 | Statistical Distributions of Lightning Currents Associated With Upward Negative Flashes Based on the Data Collected at the SÃntis (EMC) Tower in 2010 and 2011. IEEE Transactions on Power Delivery, 2013, 28, 1804-1812. | 2.9 | 56 |
| 47 | On Lightning Electromagnetic Field Propagation Along an Irregular Terrain. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 161-171. | 1.4 | 56 |
| 48 | Nonuniform Transmission Tower Model for Lightning Transient Studies. IEEE Transactions on Power Delivery, 2004, 19, 490-496. | 2.9 | 55 |
| 49 | AC OPF in radial distribution networks â€“ Part I: On the limits of the branch flow convexification and the alternating direction method of multipliers. Electric Power Systems Research, 2017, 143, 438-450. | 2.1 | 52 |
| 50 | Sequential Discrete Kalman Filter for Real-Time State Estimation in Power Distribution Systems: Theory and Implementation. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2358-2370. | 2.4 | 51 |
| 51 | A Prediction-Error Covariance Estimator for Adaptive Kalman Filtering in Step-Varying Processes: Application to Power-System State Estimation. IEEE Transactions on Control Systems Technology, 2017, 25, 1683-1697. | 3.2 | 50 |
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| 53 | Voltage Control in Active Distribution Networks Under Uncertainty in the System Model: A Robust Optimization Approach. IEEE Transactions on Smart Grid, 2018, 9, 5631-5642. | 6.2 | 50 |
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| 55 | Experimental analysis of a PEM fuel cell performance at variable load with anodic exhaust management optimization. International Journal of Hydrogen Energy, 2013, 38, 385-393. | 3.8 | 46 |
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| 58 | Indirect-Lightning Performance of Overhead Distribution Networks With Complex Topology. IEEE Transactions on Power Delivery, 2009, 24, 2206-2213. | 2.9 | 45 |
| 59 | Study of optimal design of polygeneration systems in optimal control strategies. Energy, 2013, 55, 134-141. | 4.5 | 43 |
| 60 | A composable method for real-time control of active distribution networks with explicit power setpoints. Part II: Implementation and validation. Electric Power Systems Research, 2015, 125, 265-280. | 2.1 | 43 |
| 61 | Assessment of the Influence of Losses on the Performance of the Electromagnetic Time Reversal Fault Location Method. IEEE Transactions on Power Delivery, 2017, 32, 2303-2312. | 2.9 | 43 |
| 62 | A Full-Scale Experimental Validation of Electromagnetic Time Reversal Applied to Locate Disturbances in Overhead Power Distribution Lines. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1562-1570. | 1.4 | 42 |
| 63 | Architecture and Experimental Validation of a Low-Latency Phasor Data Concentrator. IEEE Transactions on Smart Grid, 2018, 9, 2885-2893. | 6.2 | 42 |
| 64 | A Decentralized Adaptive Model-Based Real-Time Control for Active Distribution Networks Using Battery Energy Storage Systems. IEEE Transactions on Smart Grid, 2018, 9, 3406-3418. | 6.2 | 42 |
| 65 | Estimation of the Statistical Distributions of Lightning Current Parameters at Ground Level From the Data Recorded by Instrumented Towers. IEEE Transactions on Power Delivery, 2004, 19, 1400-1409. | 2.9 | 41 |
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| 67 | Irradiance prediction intervals for PV stochastic generation in microgrid applications. Solar Energy, 2016, 139, 116-129. | 2.9 | 41 |
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| 72 | Models of Wind-Turbine Main-Shaft Bearings for the Development of Specific Lightning Protection Systems. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 99-107. | 1.4 | 38 |

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| 73 | Countrywide PV hosting capacity and energy storage requirements for distribution networks: The case of Switzerland. Applied Energy, 2021, 281, 116010. | 5.1 | 38 |
| 74 | 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 SÃntis Tower. Journal of Geophysical Research D: Atmospheres, 2016, 121, 595-606. | 1.2 | 37 |
| 75 | Dispatching Stochastic Heterogeneous Resources Accounting for Grid and Battery Losses. IEEE Transactions on Smart Grid, 2018, 9, 6522-6539. | 6.2 | 37 |
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| 77 | Use of the full-wave Finite Element Method for the numerical electromagnetic analysis of LEMP and its coupling to overhead lines. Electric Power Systems Research, 2013, 94, 24-29. | 2.1 | 36 |
| 78 | Lightning Electromagnetic Fields and Their Induced Currents on Buried Cables. Part II: The Effect of a Horizontally Stratified Ground. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1146-1154. | 1.4 | 36 |
| 79 | A model predictive control strategy for the space heating of a smart building including cogeneration of a fuel cell-electrolyzer system. International Journal of Electrical Power and Energy Systems, 2014, 62, 879-889. | 3.3 | 36 |
| 80 | On the optimal placement of distributed storage systems for voltage control in active distribution networks. , 2012, , . | | 34 |
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| 82 | Optimal location and sizing of distributed storage systems in active distribution networks. , 2013, , . | | 34 |
| 83 | Impact of Synchrophasor Estimation Algorithms in ROCOF-Based Under-Frequency Load-Shedding. IEEE Transactions on Power Systems, 2020, 35, 1305-1316. | 4.6 | 33 |
| 84 | A Comprehensive Assessment of the Short-Term Uncertainty of Grid-Connected PV Systems. IEEE Transactions on Sustainable Energy, 2018, 9, 1458-1467. | 5.9 | 32 |
| 85 | Ultra Fast Linear State Estimation Utilizing SCADA Measurements. IEEE Transactions on Power Systems, 2019, 34, 2622-2631. | 4.6 | 32 |
| 86 | Reduced Leakage Synchrophasor Estimation: Hilbert Transform Plus Interpolated DFT. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3468-3483. | 2.4 | 32 |
| 87 | Probabilistic assessment of the process-noise covariance matrix of discrete Kalman filter state estimation of active distribution networks. , 2014, , . | | 31 |
| 88 | Fault location in multi-terminal HVDC networks based on Electromagnetic Time Reversal with limited time reversal window. , 2014, , . | | 31 |
| 89 | A high-performance, low-cost PMU prototype for distribution networks based on FPGA. , 2017, , . | | 31 |
| 90 | Model-less/measurement-based computation of voltage sensitivities in unbalanced electrical distribution networks. , 2016, , . | | 30 |

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| 91 | Enhanced Equivalent Electrical Circuit Model of Lithium-Based Batteries Accounting for Charge Redistribution, State-of-Health, and Temperature Effects. IEEE Transactions on Transportation Electrification, 2017, 3, 589-599. | 5.3 | 30 |
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| 94 | A pre-estimation filtering process of bad data for linear power systems state estimators using PMUs. , 2014, , . | | 28 |
| 95 | Feasibility of Time-Synchronization Attacks Against PMU-Based State Estimation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3412-3427. | 2.4 | 28 |
| 96 | Integrated voltage control and line congestion management in Active Distribution Networks by means of smart transformers. , 2014, , . | | 27 |
| 97 | The White Rabbit Time Synchronization Protocol for Synchrophasor Networks. IEEE Transactions on Smart Grid, 2020, 11, 726-738. | 6.2 | 27 |
| 98 | Parameter Estimation of Three-Phase Untransposed Short Transmission Lines From Synchrophasor Measurements. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6143-6154. | 2.4 | 27 |
| 99 | Lightning Currents Flowing in the Soil and Entering a Test Power Distribution Line Via Its Grounding. IEEE Transactions on Power Delivery, 2009, 24, 1095-1103. | 2.9 | 26 |
| 100 | Evaluation of Lightning-Induced Currents on Cables Buried in a Lossy Dispersive Ground. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1522-1529. | 1.4 | 25 |
| 101 | Macroscopic indicators of fault diagnosis and ageing in electrochemical double layer capacitors. Journal of Energy Storage, 2015, 2, 8-24. | 3.9 | 25 |
| 102 | Using electromagnetic time reversal to locate faults in transmission lines: Definition and application of the â€œMirrored Minimum Energyâ€•property. , 2017, , . | | 25 |
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| 104 | An enhanced interpolated-modulated sliding DFT for high reporting rate PMUs. , 2014, , . | | 24 |
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| 106 | Beyond Phasors: Modeling of Power System Signals Using the Hilbert Transform. IEEE Transactions on Power Systems, 2020, 35, 2971-2980. | 4.6 | 24 |
| 107 | AC OPF in radial distribution networks â€“ Part II: An augmented Lagrangian-based OPF algorithm, distributable via primal decomposition. Electric Power Systems Research, 2017, 150, 24-35. | 2.1 | 23 |
| 108 | On the use of electromagnetic time reversal to locate faults in series-compensated transmission lines. , 2013, , . | | 22 |

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| 109 | An automated FPGA real-time simulator for power electronics and power systems electromagnetic transient applications. Electric Power Systems Research, 2016, 141, 147-156. | 2.1 | 22 |
| 110 | Model-free computation of ultra-short-term prediction intervals of solar irradiance. Solar Energy, 2016, 124, 57-67. | 2.9 | 22 |
| 111 | On the Properties of the Power Systems Nodal Admittance Matrix. IEEE Transactions on Power Systems, 2018, 33, 1130-1131. | 4.6 | 22 |
| 112 | Time reversal applied to fault location in power networks: Pilot test results and analyses. International Journal of Electrical Power and Energy Systems, 2020, 114, 105382. | 3.3 | 22 |
| 113 | Optimal provision of concurrent primary frequency and local voltage control from a BESS considering variable capability curves: Modelling and experimental assessment. Electric Power Systems Research, 2021, 190, 106643. | 2.1 | 22 |
| 114 | Grid-Aware Distributed Model Predictive Control of Heterogeneous Resources in a Distribution Network: Theory and Experimental Validation. IEEE Transactions on Energy Conversion, 2021, 36, 1392-1402. | 3.7 | 22 |
| 115 | PMU-based linear state estimation of Lausanne subtransmission network: Experimental validation. Electric Power Systems Research, 2020, 189, 106649. | 2.1 | 22 |
| 116 | Inter-area frequency control reserve assessment regarding dynamics of cascading outages and blackouts. Electric Power Systems Research, 2014, 107, 144-152. | 2.1 | 21 |
| 117 | Effects of nearby buildings on lightning induced voltages on overhead power distribution lines. Electric Power Systems Research, 2013, 94, 38-45. | 2.1 | 20 |
| 118 | Intra-day electro-thermal model predictive control for polygeneration systems in microgrids. Energy, 2016, 104, 308-319. | 4.5 | 20 |
| 119 | Analysis of lightning-ionosphere interaction using simultaneous records of source current and 380Âkm distant electric field. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 159, 48-56. | 0.6 | 20 |
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| 122 | Optimal Design of the Propulsion System of a Hyperloop Capsule. IEEE Transactions on Transportation Electrification, 2019, 5, 1406-1418. | 5.3 | 20 |
| 123 | A New Approach to the Online Estimation of the Loss of Generation Size in Power Systems. IEEE Transactions on Power Systems, 2019, 34, 2103-2113. | 4.6 | 20 |
| 124 | Voltage transient measurements in a distribution network correlated with data from lightning location system and from sequence of events recorders. Electric Power Systems Research, 2011, 81, 237-253. | 2.1 | 19 |
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| 127 | Vacuum circuit breaker modelling for the assessment of transient recovery voltages: Application to various network configurations. Electric Power Systems Research, 2018, 156, 35-43. | 2.1 | 19 |
| 128 | Taylor-Fourier PMU on a Real-Time Simulator: Design, Implementation and Characterization. , 2019, , . | | 19 |
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| 131 | Modelling of current and temperature effects on supercapacitors ageing. Part I: Review of driving phenomenology. Journal of Energy Storage, 2016, 5, 85-94. | 3.9 | 18 |
| 132 | Locating lightning strikes and flashovers along overhead power transmission lines using electromagnetic time reversal. Electric Power Systems Research, 2018, 160, 282-291. | 2.1 | 18 |
| 133 | Models of Wind-Turbine Main Shaft Bearings for the Development of Specific Lightning Protection Systems. , 2007, , . | | 17 |
| 134 | An interpolated-DFT synchrophasor estimation algorithm and its implementation in an FPGA-based PMU prototype. , 2013, , . | | 17 |
| 135 | Determination of lightning currents from far electromagnetic fields: Effect of a strike object. Journal of Electrostatics, 2007, 65, 289-295. | 1.0 | 16 |
| 136 | Lightning-induced currents in buried coaxial cables: A frequency-domain approach and its validation using rocket-triggered lightning. Journal of Electrostatics, 2007, 65, 322-328. | 1.0 | 16 |
| 137 | A Hardware-in-the-Loop test platform for the performance assessment of a PMU-based Real-Time State Estimator for Active Distribution Networks. , 2015, , . | | 16 |
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| 139 | Electromagnetic Time Reversal Similarity Characteristics and Its Application to Locating Faults in Power Networks. IEEE Transactions on Power Delivery, 2020, 35, 1735-1748. | 2.9 | 16 |
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| 148 | A Two-Stage Scheduler of Distributed Energy Resources. , 2007, , . | | 14 |
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| 151 | A microcontroller-based automatic scheduling system for residential microgrids. , 2009, , . | | 13 |
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| 153 | Extension of the Unmatched-Media Time Reversal Method to Locate Soft Faults in Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1539-1545. | 1.4 | 13 |
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| 155 | A Statistical Approach for Estimating the Correlation between Lightning and Faults in Power Distribution Systems. , 2006, , . | | 12 |
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| 157 | A Modified Formula for Distance Relaying of Tapped Transmission Lines With Grounded Neutrals. IEEE Transactions on Power Delivery, 2019, 34, 690-699. | 2.9 | 12 |
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| 159 | Siting and Sizing of Energy Storage Systems: Towards a Unified Approach for Transmission and Distribution System Operators for Reserve Provision and Grid Support. Electric Power Systems Research, 2021, 190, 106660. | 2.1 | 12 |
| 160 | Harmonic Power-Flow Study of Polyphase Grids With Converter-Interfaced Distributed Energy Resourcesâ€"Part I: Modeling Framework and Algorithm. IEEE Transactions on Smart Grid, 2022, 13, 458-469. | 6.2 | 12 |
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