Vladimir Terzija

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5524776/publications.pdf

Version: 2024-02-01

288	9,536	44069	53230
papers	citations	48 h-index	85 g-index

290	290	290	5861
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wide-Area Monitoring, Protection, and Control of Future Electric Power Networks. Proceedings of the IEEE, 2011, 99, 80-93.	21.3	593
2	Power System Dynamic State Estimation: Motivations, Definitions, Methodologies, and Future Work. IEEE Transactions on Power Systems, 2019, 34, 3188-3198.	6.5	417
3	Adaptive Underfrequency Load Shedding Based on the Magnitude of the Disturbance Estimation. IEEE Transactions on Power Systems, 2006, 21, 1260-1266.	6.5	346
4	Unscented Kalman filter for power system dynamic state estimation. IET Generation, Transmission and Distribution, 2011, 5, 29.	2.5	300
5	Voltage phasor and local system frequency estimation using Newton type algorithm. IEEE Transactions on Power Delivery, 1994, 9, 1368-1374.	4.3	264
6	Wake effect in wind farm performance: Steady-state and dynamic behavior. Renewable Energy, 2012, 39, 329-338.	8.9	242
7	Two-Step Spectral Clustering Controlled Islanding Algorithm. IEEE Transactions on Power Systems, 2013, 28, 75-84.	6.5	239
8	Power system restoration: a literature review fromÂ2006 to 2016. Journal of Modern Power Systems and Clean Energy, 2016, 4, 332-341.	5.4	202
9	Rotor Angle Instability Prediction Using Post-Disturbance Voltage Trajectories. IEEE Transactions on Power Systems, 2010, 25, 947-956.	6.5	155
10	Simultaneous Estimation of the Time of Disturbance and Inertia in Power Systems. IEEE Transactions on Power Delivery, 2014, 29, 2018-2031.	4.3	151
11	Review on deep learning applications in frequency analysis and control of modern power system. International Journal of Electrical Power and Energy Systems, 2022, 136, 107744.	5.5	136
12	A new approach to the arcing faults detection for fast autoreclosure in transmission systems. IEEE Transactions on Power Delivery, 1995, 10, 1793-1798.	4.3	126
13	An Integrated Framework for Smart Microgrids Modeling, Monitoring, Control, Communication, and Verification. Proceedings of the IEEE, 2011, 99, 119-132.	21.3	126
14	Optimal Electric Network Design for a Large Offshore Wind Farm Based on a Modified Genetic Algorithm Approach. IEEE Systems Journal, 2012, 6, 164-172.	4.6	122
15	Measurements get together. IEEE Power and Energy Magazine, 2009, 7, 41-49.	1.6	115
16	On the Modeling of Long Arc in Still Air and Arc Resistance Calculation. IEEE Transactions on Power Delivery, 2004, 19, 1012-1017.	4.3	110
17	A Constrained Formulation for Hybrid State Estimation. IEEE Transactions on Power Systems, 2011, 26, 1102-1109.	6.5	108
18	Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control. IEEE Transactions on Power Systems, 2020, 35, 950-961.	6.5	104

#	Article	IF	Citations
19	Roles of Dynamic State Estimation in Power System Modeling, Monitoring and Operation. IEEE Transactions on Power Systems, 2021, 36, 2462-2472.	6.5	104
20	Location of Single Phase to Ground Faults in Distribution Networks Based on Synchronous Transients Energy Analysis. IEEE Transactions on Smart Grid, 2020, 11, 774-785.	9.0	101
21	Quantitative synergy assessment of regional wind-solar energy resources based on MERRA reanalysis data. Applied Energy, 2018, 216, 172-182.	10.1	94
22	Smart frequency control in low inertia energy systems based on frequency response techniques: A review. Applied Energy, 2020, 279, 115798.	10.1	94
23	A rough set-based bio-inspired fault diagnosis method for electrical substations. International Journal of Electrical Power and Energy Systems, 2020, 119, 105961.	5.5	94
24	Improved recursive newton-type algorithm for frequency and spectra estimation in power systems. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 1654-1659.	4.7	87
25	Wide Area Inter-Area Oscillation Monitoring Using Fast Nonlinear Estimation Algorithm. IEEE Transactions on Smart Grid, 2013, 4, 1721-1731.	9.0	85
26	Estimation of Composite Load Model Parameters Using an Improved Particle Swarm Optimization Method. IEEE Transactions on Power Delivery, 2015, 30, 553-560.	4.3	82
27	Optimization of the Event-Driven Emergency Load-Shedding Considering Transient Security and Stability Constraints. IEEE Transactions on Power Systems, 2017, 32, 2581-2592.	6.5	82
28	Estimation of generator inertia available during a disturbance. , 2012, , .		79
29	Probabilistic load flow with non-Gaussian correlated random variables using Gaussian mixture models. IET Generation, Transmission and Distribution, 2012, 6, 701.	2.5	77
30	Power system inertia estimation: Review of methods and the impacts of converter-interfaced generations. International Journal of Electrical Power and Energy Systems, 2022, 134, 107362.	5.5	74
31	Stochastic Monitoring of Distribution Networks Including Correlated Input Variables. IEEE Transactions on Power Systems, 2013, 28, 246-255.	6.5	73
32	Improving the performance of power system protection using wide area monitoring systems. Journal of Modern Power Systems and Clean Energy, 2016, 4, 319-331.	5.4	70
33	Numerical Algorithm for Adaptive Autoreclosure and Protection of Medium-Voltage Overhead Lines. IEEE Transactions on Power Delivery, 2004, 19, 554-559.	4.3	69
34	A New Centralized Adaptive Underfrequency Load Shedding Controller for Microgrids Based on a Distribution State Estimator. IEEE Transactions on Power Delivery, 2017, 32, 370-380.	4.3	69
35	A Self-Organizing Architecture for Decentralized Smart Microgrids Synchronization, Control, and Monitoring. IEEE Transactions on Industrial Informatics, 2015, 11, 289-298.	11.3	68
36	Application of firefly algorithm with online wavelet filter in automatic generation control of an interconnected reheat thermal power system. International Journal of Electrical Power and Energy Systems, 2014, 63, 401-413.	5.5	67

#	Article	IF	Citations
37	Constrained spectral clusteringâ€based methodology for intentional controlled islanding of largeâ€scale power systems. IET Generation, Transmission and Distribution, 2015, 9, 31-42.	2.5	63
38	Time domain solution of fault distance estimation and arcing faults detection on overhead lines. IEEE Transactions on Power Delivery, 1999, 14, 60-67.	4.3	61
39	Nonlinear Estimation of Synchronous Machine Parameters Using Operating Data. IEEE Transactions on Energy Conversion, 2011, 26, 831-839.	5.2	59
40	Flexible Synchronized Measurement Technology-Based Fault Locator. IEEE Transactions on Smart Grid, 2015, 6, 866-873.	9.0	56
41	Active power support of wind turbines for grid frequency events using a reliable power reference scheme. Renewable Energy, 2019, 139, 1241-1254.	8.9	56
42	A new self-tuning algorithm for the frequency estimation of distorted signals. IEEE Transactions on Power Delivery, 1995, 10, 1779-1785.	4.3	55
43	Intermittent Fault Location in Distribution Feeders. IEEE Transactions on Power Delivery, 2012, 27, 96-103.	4.3	55
44	Corrective economic dispatch and operational cycles for probabilistic unit commitment with demand response and high wind power. Applied Energy, 2016, 182, 634-651.	10.1	54
45	On-line power system inertia calculation using wide area measurements. International Journal of Electrical Power and Energy Systems, 2019, 109, 325-331.	5.5	54
46	Probabilistic Optimal PV Capacity Planning for Wind Farm Expansion Based on NASA Data. IEEE Transactions on Sustainable Energy, 2017, 8, 1291-1300.	8.8	52
47	Robust Online Estimation of Power System Center of Inertia Frequency. IEEE Transactions on Power Systems, 2019, 34, 821-825.	6.5	52
48	Toward Intelligent Inertial Frequency Participation of Wind Farms for the Grid Frequency Control. IEEE Transactions on Industrial Informatics, 2020, 16, 6772-6786.	11.3	52
49	Distance protection and fault location utilizing only phase current phasors. IEEE Transactions on Power Delivery, 1998, 13, 1020-1026.	4.3	51
50	Determination of sectionalising strategies for parallel power system restoration: A spectral clustering-based methodology. Electric Power Systems Research, 2014, 116, 381-390.	3.6	51
51	Measuring effective area inertia to determine fast-acting frequency response requirements. International Journal of Electrical Power and Energy Systems, 2019, 113, 1-8.	5.5	51
52	Modelling, simulation and measurement of fast transients in transformer windings with consideration of frequency-dependent losses. IET Electric Power Applications, 2007, 1, 29.	1.8	50
53	Multiobjective Dynamic Optimal Power Flow Considering Fuzzy-Based Smart Utilization of Mobile Electric Vehicles. IEEE Transactions on Industrial Informatics, 2016, 12, 503-514.	11.3	50
54	Numerical algorithm for overhead lines arcing faults detection and distance and directional protection. IEEE Transactions on Power Delivery, 2000, 15, 31-37.	4.3	49

#	Article	IF	Citations
55	Estimation of Frequency and Fundamental Power Components Using an Unscented Kalman Filter. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 952-962.	4.7	49
56	Lightning flash algorithm for solving nonâ€convex combined emission economic dispatch with generator constraints. IET Generation, Transmission and Distribution, 2018, 12, 104-116.	2.5	49
57	Measurement-Based Transmission Line Parameter Estimation With Adaptive Data Selection Scheme. IEEE Transactions on Smart Grid, 2018, 9, 5764-5773.	9.0	49
58	Practical multiâ€area biâ€objective environmental economic dispatch equipped with a hybrid gradient search method and improved Jaya algorithm. IET Generation, Transmission and Distribution, 2016, 10, 3580-3596.	2.5	48
59	On the Use of Dynamic Thermal-Line Ratings for Improving Operational Tripping Schemes. IEEE Transactions on Power Delivery, 2016, 31, 1891-1900.	4.3	48
60	Graph Spectra Based Controlled Islanding for Low Inertia Power Systems. IEEE Transactions on Power Delivery, 2017, 32, 302-309.	4.3	47
61	New settings-free fault location algorithm based on synchronised sampling. IET Generation, Transmission and Distribution, 2011, 5, 376.	2.5	46
62	Sectionalising methodology for parallel system restoration based on graph theory. IET Generation, Transmission and Distribution, 2015, 9, 1216-1225.	2.5	46
63	A Hierarchical Inertial Control Scheme for Multiple Wind Farms With BESSs Based on ADMM. IEEE Transactions on Sustainable Energy, 2021, 12, 751-760.	8.8	46
64	Investigation of the Overvoltage and Fast Transient Phenomena on Transformer Terminals by Taking Into Account the Grounding Effects. IEEE Transactions on Industry Applications, 2015, 51, 5218-5227.	4.9	44
65	Hardware-in-the-Loop and Field Validation of a Rotor-Side Subsynchronous Damping Controller for a Series Compensated DFIG System. IEEE Transactions on Power Delivery, 2021, 36, 698-709.	4.3	42
66	Underfrequency Load Shedding Using Locally Estimated RoCoF of the Center of Inertia. IEEE Transactions on Power Systems, 2021, 36, 4212-4222.	6.5	41
67	Two-Stage Improved Recursive Newton-Type Algorithm for Power-Quality Indices Estimation. IEEE Transactions on Power Delivery, 2007, 22, 1351-1359.	4.3	40
68	High Impedance Arc Fault Detection Based on the Harmonic Randomness and Waveform Distortion in the Distribution System. IEEE Transactions on Power Delivery, 2020, 35, 837-850.	4.3	40
69	A Method for Accurate Parameter Estimation of Series Compensated Transmission Lines Using Synchronized Data. IEEE Transactions on Power Systems, 2017, 32, 4843-4850.	6.5	39
70	Active Power Imbalance Detection, Size and Location Estimation Using Limited PMU Measurements. IEEE Transactions on Power Systems, 2019, 34, 1362-1372.	6.5	38
71	Digital Metering of Power Components According to IEEE Standard 1459-2000 Using the Newton-Type Algorithm. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2717-2724.	4.7	37
72	General Analysis of Vacuum Circuit Breaker Switching Overvoltages in Offshore Wind Farms. IEEE Transactions on Power Delivery, 2016, 31, 2351-2359.	4.3	37

#	Article	IF	Citations
73	Robust Hybrid Linear State Estimator Utilizing SCADA and PMU Measurements. IEEE Transactions on Power Systems, 2021, 36, 1264-1273.	6.5	37
74	New Static â€œAirArcâ€•EMTP Model of Long Arc in Free Air. IEEE Transactions on Power Delivery, 2011, 26, 1344-1353.	4.3	36
75	An Ultra-High-Speed Directional Relay Based on Correlation of Incremental Quantities. IEEE Transactions on Power Delivery, 2018, 33, 2726-2735.	4.3	36
76	Application of Newton-based load flow methods for determining steady-state condition of well and ill-conditioned power systems: A review. International Journal of Electrical Power and Energy Systems, 2019, 113, 298-309.	5.5	36
77	A Linear Inertial Response Emulation for Variable Speed Wind Turbines. IEEE Transactions on Power Systems, 2020, 35, 1198-1208.	6.5	36
78	Fast frequency response for effective frequency control in power systems with low inertia. Journal of Engineering, 2019, 2019, 1696-1702.	1.1	35
79	A New Biobjective Probabilistic Risk-Based Wind-Thermal Unit Commitment Using Heuristic Techniques. IEEE Transactions on Industrial Informatics, 2017, 13, 115-124.	11.3	34
80	A New Algorithm to Avoid Maloperation of Transformer Differential Protection in Substations With an Inner Bridge Connection. IEEE Transactions on Power Delivery, 2012, 27, 1178-1185.	4.3	33
81	Smart Overhead Lines Autoreclosure Algorithm Based on Detailed Fault Analysis. IEEE Transactions on Smart Grid, 2013, 4, 1829-1838.	9.0	32
82	Ultra Fast Linear State Estimation Utilizing SCADA Measurements. IEEE Transactions on Power Systems, 2019, 34, 2622-2631.	6.5	32
83	Reserve constrained dynamic economic dispatch in multi-area power systems: An improved fireworks algorithm. International Journal of Electrical Power and Energy Systems, 2021, 126, 106579.	5.5	32
84	Development and Validation of Artificial Neural Network-Based Tools for Forecasting of Power System Inertia With Wind Farms Penetration. IEEE Systems Journal, 2020, 14, 4978-4989.	4.6	31
85	Synchronized Measurements-Based Algorithm for Short Transmission Line Fault Analysis. IEEE Transactions on Smart Grid, 2015, 6, 2639-2648.	9.0	30
86	Analytically derived fixed termination time for stepwise inertial control of wind turbinesâ€”Part I: Analytical derivation. International Journal of Electrical Power and Energy Systems, 2020, 121, 106120.	5.5	28
87	Linear LAVâ€based state estimation integrating hybrid SCADA/PMU measurements. IET Generation, Transmission and Distribution, 2020, 14, 1583-1590.	2.5	28
88	Identifying the Timing of Controlled Islanding Using a Controlling UEP Based Method. IEEE Transactions on Power Systems, 2018, 33, 5913-5922.	6.5	27
89	Slow Coherency Identification and Power System Dynamic Model Reduction by Using Orthogonal Structure of Electromechanical Eigenvectors. IEEE Transactions on Power Systems, 2021, 36, 1482-1492.	6.5	27
90	STLS Algorithm for Power-Quality Indices Estimation. IEEE Transactions on Power Delivery, 2008, 23, 544-552.	4.3	26

#	Article	IF	Citations
91	Design, Evaluation and Implementation of an Islanding Detection Method for a Micro-grid. Energies, 2018, 11, 323.	3.1	26
92	Local Frequency-Based Estimation of the Rate of Change of Frequency of the Center of Inertia. IEEE Transactions on Power Systems, 2020, 35, 4948-4951.	6.5	26
93	An Affine-Arithmetic-Based Consensus Protocol for Smart-Grid Computing in the Presence of Data Uncertainties. IEEE Transactions on Industrial Electronics, 2015, 62, 2973-2982.	7.9	25
94	Online Non-Iterative Estimation of Transmission Line and Transformer Parameters by SCADA Data. IEEE Transactions on Power Systems, 2021, 36, 2632-2641.	6.5	25
95	Gaussian Distribution-Based Inertial Control of Wind Turbine Generators for Fast Frequency Response in Low Inertia Systems. IEEE Transactions on Sustainable Energy, 2022, 13, 1641-1653.	8.8	25
96	Arcing faults detection on overhead lines from the voltage signals. International Journal of Electrical Power and Energy Systems, 1997, 19, 299-303.	5.5	24
97	Symmetrical components estimation through nonrecursive newton-type numerical algorithm. IEEE Transactions on Power Delivery, 2003, 18, 359-363.	4.3	24
98	Adaptive Online Disturbance Location Considering Anisotropy of Frequency Propagation Speeds. IEEE Transactions on Power Systems, 2016, 31, 931-941.	6.5	24
99	A Novel Direct Power Control for DFIG With Parallel Compensator Under Unbalanced Grid Condition. IEEE Transactions on Industrial Electronics, 2021, 68, 9607-9618.	7.9	24
100	State estimation including synchronized measurements. , 2009, , .		23
101	Synchro-Measurement Application Development Framework: An IEEE Standard C37.118.2-2011 Supported MATLAB Library. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1804-1814.	4.7	23
102	A network reconfiguration approach for power system restoration based on preference-based multiobjective optimization. Applied Soft Computing Journal, 2019, 83, 105656.	7.2	23
103	Fast Frequency Response From Smart Induction Motor Variable Speed Drives. IEEE Transactions on Power Systems, 2020, 35, 997-1008.	6.5	23
104	A graph theory based new approach for power system restoration. , 2013, , .		22
105	Performance investigation of ABC algorithm in multi-area power system with multiple interconnected generators. Applied Soft Computing Journal, 2017, 57, 436-451.	7.2	22
106	Synchronised Measurements Based Algorithm for Long Transmission Line Fault Analysis. IEEE Transactions on Smart Grid, 2018, 9, 4448-4457.	9.0	22
107	Equivalent traveling waves based current differential protection of EHV/UHV transmission lines. International Journal of Electrical Power and Energy Systems, 2018, 97, 282-289.	5.5	22
108	Design and Validation of a Wide Area Monitoring and Control System for Fast Frequency Response. IEEE Transactions on Smart Grid, 2020, 11, 3394-3404.	9.0	22

#	Article	IF	Citations
109	Power quality indicators estimation using robust Newton-type algorithm. IET Generation, Transmission and Distribution, 2004, 151, 477.	1.1	21
110	Controlled islanding strategy considering power system restoration constraints. , 2012, , .		21
111	A Robust and Adaptive Detection Scheme for Interharmonics in Active Distribution Network. IEEE Transactions on Power Delivery, 2018, 33, 2524-2534.	4.3	21
112	Improved Fault Analysis Method Based on a New Arc Resistance Formula. IEEE Transactions on Power Delivery, 2011, 26, 120-126.	4.3	20
113	Frequency and Power Components Estimation from Instantaneous Power Signal. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3640-3649.	4.7	20
114	Coordinating self-healing control of bulk power transmission system based on a hierarchical top-down strategy. International Journal of Electrical Power and Energy Systems, 2017, 90, 147-157.	5.5	20
115	Dynamic power flow algorithm considering frequency regulation of wind power generators. IET Renewable Power Generation, 2017, 11, 1218-1225.	3.1	20
116	Utility-Oriented Online Load Restoration Considering Wind Power Penetration. IEEE Transactions on Sustainable Energy, 2019, 10, 706-717.	8.8	20
117	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.	6.5	20
118	Wide-Area Backup Protection Against Asymmetrical Faults Using Available Phasor Measurements. IEEE Transactions on Power Delivery, 2020, 35, 2032-2039.	4.3	20
119	Spectral domain arcing fault recognition and fault distance calculation in transmission systems. Electric Power Systems Research, 1996, 37, 105-113.	3.6	19
120	Assessment of Frequency and Harmonic Distortions During Wind Farm Rejection Test. IEEE Transactions on Sustainable Energy, 2013, 4, 698-705.	8.8	19
121	Constrained spectral clustering based controlled islanding. International Journal of Electrical Power and Energy Systems, 2014, 63, 687-694.	5.5	19
122	Lightning back flashover tripping patterns on a 275/132ÂkV quadruple circuit transmission line in Malaysia. IET Science, Measurement and Technology, 2016, 10, 344-354.	1.6	19
123	Intentional Controlled Islanding and Risk Assessment: A Unified Framework. IEEE Systems Journal, 2018, 12, 3637-3648.	4.6	19
124	A Numerical Approach for Hybrid Simulation of Power System Dynamics Considering Extreme Icing Events. IEEE Transactions on Smart Grid, 2018, 9, 5038-5046.	9.0	19
125	A Novel Algorithm to Avoid the Maloperation of UHV Voltage-Regulating Transformers. IEEE Transactions on Power Delivery, 2014, 29, 2146-2153.	4.3	18
126	A Novel Control Strategy for Subsynchronous Resonance Mitigation Using 11 kV VFD-Based Auxiliary Power Plant Loads. IEEE Transactions on Power Delivery, 2018, 33, 728-740.	4.3	18

#	Article	IF	Citations
127	Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. IEEE Transactions on Smart Grid, 2020, 11, 3405-3417.	9.0	18
128	A hybrid robust forecasting-aided state estimator considering bimodal Gaussian mixture measurement errors. International Journal of Electrical Power and Energy Systems, 2020, 120, 105962.	5.5	18
129	Digital signal processing algorithm for arcing faults detection and fault distance calculation on transmission lines. International Journal of Electrical Power and Energy Systems, 1997, 19, 165-170.	5.5	17
130	Smart frequency control for the future GB power system. , 2016, , .		17
131	Nonlinearity Characteristic of High Impedance Fault at Resonant Distribution Networks: Theoretical Basis to Identify the Faulty Feeder. IEEE Transactions on Power Delivery, 2022, 37, 923-936.	4.3	17
132	PMU-voltage drop based fault locator for transmission backup protection. Electric Power Systems Research, 2021, 196, 107188.	3.6	17
133	Analytically derived fixed termination time for stepwise inertial control of wind turbinesâ€"Part II: Application strategy. International Journal of Electrical Power and Energy Systems, 2020, 121, 106106.	5.5	17
134	Increased energy in stable dry-band arcs due to length compression. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 473-480.	2.9	16
135	Development and Validation of a New Oscillatory Component Load Model For Real-Time Estimation of Dynamic Load Model Parameters. IEEE Transactions on Power Delivery, 2020, 35, 618-629.	4.3	16
136	Effective Two-terminal Numerical Algorithm for Overhead Lines Protection. Electrical Engineering, 2007, 89, 425-432.	2.0	15
137	A Phasor Estimation Algorithm Robust to Decaying DC Component. IEEE Transactions on Power Delivery, 2022, 37, 860-870.	4.3	15
138	Synthetic inertial control of wind farm with BESS based on model predictive control. IET Renewable Power Generation, 2020, 14, 2447-2455.	3.1	15
139	Inertia estimation using PMUs in a laboratory. , 2014, , .		14
140	An Asynchronous Decentralized Forecasting-Aided State Estimator for Power Systems. IEEE Transactions on Power Systems, 2019, 34, 3059-3068.	6.5	14
141	Fast robust power system dynamic state estimation using model transformation. International Journal of Electrical Power and Energy Systems, 2020, 114, 105390.	5.5	14
142	Improving frequency regulation of windâ€integrated <scp>multiâ€area</scp> systems using <scp>LFAâ€fuzzy PID</scp> control. International Transactions on Electrical Energy Systems, 2021, 31, e12802.	1.9	14
143	Stochastic frequency constrained unit commitment incorporating virtual inertial response from variable speed wind turbines. IET Generation, Transmission and Distribution, 2020, 14, 5193-5201.	2.5	14
144	A holistic review on Cyber-Physical Power System (CPPS) testbeds for secure and sustainable electric power grid â€“ Part â€“ I: Background on CPPS and necessity of CPPS testbeds. International Journal of Electrical Power and Energy Systems, 2022, 136, 107718.	5.5	14

#	Article	IF	Citations
145	Unscented Kalman Filter for frequency and amplitude estimation. , 2011, , .		13
146	FlexNet wide area monitoring system. , 2011, , .		13
147	Transient fault studies in a multi-terminal VSC-HVDC grid utilizing protection means through DC circuit breakers. , 2013, , .		13
148	A flexible platform for synchronized measurements, data aggregation and information retrieval. Electric Power Systems Research, 2015, 120, 20-31.	3.6	13
149	A two-step hybrid power system state estimator. International Transactions on Electrical Energy Systems, 2015, 25, 1158-1172.	1.9	13
150	A new inertia emulator and fuzzy-based LFC to support inertial and governor responses using Jaya algorithm. , 2016, , .		13
151	Discovering Clusters in Power Networks From Orthogonal Structure of Spectral Embedding. IEEE Transactions on Power Systems, 2018, 33, 6441-6451.	6.5	13
152	Analysis of Hybrid State Estimators: Accuracy and Convergence of Estimator Formulations. IEEE Transactions on Power Systems, 2019, 34, 2565-2576.	6.5	13
153	An interdisciplinary research perspective on the future of multi-vector energy networks. International Journal of Electrical Power and Energy Systems, 2022, 135, 107492.	5.5	13
154	Direct estimation of voltage phasor, frequency and its rate of change using Newton's iterative method. International Journal of Electrical Power and Energy Systems, 1994, 16, 423-428.	5.5	12
155	Modeling the development of low current arcs and arc resistance simulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2049-2057.	2.9	12
156	Bi-Level Dispatch and Control Architecture for Power System in China Based on Grid-Friendly Virtual Power Plant. Applied Sciences (Switzerland), 2021, 11, 1282.	2.5	12
157	High-Speed Distance Relaying of the Entire Length of Transmission Lines Without Signaling. IEEE Transactions on Power Delivery, 2020, 35, 1949-1959.	4.3	12
158	Decentralized data-driven estimation of generator rotor speed and inertia constant based on adaptive unscented Kalman filter. International Journal of Electrical Power and Energy Systems, 2022, 137, 107853.	5.5	12
159	Flexible wide area monitoring, protection and control applications in future power networks. , 2010, , .		11
160	An Adaptive Decomposition Scheme for Wideband Signals of Power Systems Based on the Modified Robust Regression Smoothing and Chebyshev-II IIR Filter Bank. IEEE Transactions on Power Delivery, 2019, 34, 220-230.	4.3	11
161	A New Load Shedding Scheme With Consideration of Distributed Energy Resourcesâ€™ Active Power Ramping Capability. IEEE Transactions on Power Systems, 2022, 37, 81-93.	6.5	11
162	A recursive Newton type algorithm for digital frequency relaying. Electric Power Systems Research, 1996, 36, 67-72.	3.6	10

#	Article	IF	Citations
163	Synchronous and asynchronous generators frequency and harmonics behavior after a sudden load rejection. IEEE Transactions on Power Systems, 2003, 18, 730-736.	6.5	10
164	Impact of distributed generators on arcing faults in distribution networks. IET Generation, Transmission and Distribution, 2011, 5, 596.	2.5	10
165	Comparison of Gaussian mixture reductions for probabilistic studies in power systems. , 2012, , .		10
166	Active power modulation assisting controller scheme implemented on a VSC-HVDC link establishing effective damping of low frequency power oscillations. , 2014, , .		10
167	Deployment and demonstration of wide area monitoring system in power system of Great Britain. Journal of Modern Power Systems and Clean Energy, 2016, 4, 506-518.	5.4	10
168	Roadmap for the deployment of WAMPAC in the future GB power system. IET Generation, Transmission and Distribution, 2016, 10, 1553-1562.	2.5	10
169	The Development of Low-Current Surface Arcs Under Clean and Salt-Fog Conditions in Electricity Distribution Networks. IEEE Access, 2018, 6, 15835-15843.	4.2	10
170	Perturbation-Based Sensitivity Analysis of Slow Coherency With Variable Power System Inertia. IEEE Transactions on Power Systems, 2021, 36, 1121-1129.	6.5	10
171	Diagnosis of the single phaseâ€toâ€ground fault in distribution network based on feature extraction and transformation from the waveforms. IET Generation, Transmission and Distribution, 2020, 14, 6079-6086.	2.5	10
172	Enhanced state estimation with real-time updated network parameters using SMT. , 2009, , .		9
173	A new controlled islanding algorithm based on spectral clustering. , 2011, , .		9
174	SCADA and PMU Measurement Based Methods for Robust Hybrid State Estimation. Electric Power Components and Systems, 2019, 47, 849-860.	1.8	9
175	Issues and Challenges of Steady-State Fault Calculation Methods in Power Systems With a High Penetration of Non-Synchronous Generation. , 2019, , .		9
176	Wide-Area Identification of the Size and Location of Loss of Generation Events by Sparse PMUs. IEEE Transactions on Power Delivery, 2021, 36, 2397-2407.	4.3	9
177	A holistic review on Cyber-Physical Power System (CPPS) testbeds for secure and sustainable electric power grid â€“ Part â€“ II: Classification, overview and assessment of CPPS testbeds. International Journal of Electrical Power and Energy Systems, 2022, 137, 107721.	5.5	9
178	A NUMERICAL ALGORITHM FOR DIRECT REAL-TIME ESTIMATION OF VOLTAGE PHASOR, FREQUENCY AND ITS RATE OF CHANGE. Electric Power Components and Systems, 1996, 24, 417-428.	0.1	8
179	An ATP-EMTP-Based Model for Analysis of Shielding Properties of Ferromagnetic Cable Sheaths. IEEE Transactions on Power Delivery, 2005, 20, 2241-2247.	4.3	8
180	A new iterative method for fault currents calculation which models arc resistance at the fault location. Electrical Engineering, 2006, 89, 157-165.	2.0	8

#	Article	IF	Citations
181	Damping of inter-area power oscillations in hybrid AC-DC power systems based on supervisory control scheme utilizing FACTS and HVDC. , 2016, , .		8
182	Fast, <italic>In Situ</italic> Demagnetization Method for Protection Current Transformers. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
183	Smart integrated adaptive centralized controller for islanded microgrids under minimized load shedding. , 2017, , .		8
184	Performance of outâ€ofâ€step tripping protection under renewable integration. Journal of Engineering, 2018, 2018, 1216-1222.	1.1	8
185	European LV microgrid benchmark network: Development and frequency response analysis. , 2018, , .		8
186	Analysis of discharge energy on surge arrester configurations in 132â€¯kV double circuit transmission lines. Measurement: Journal of the International Measurement Confederation, 2019, 139, 103-111.	5.0	8
187	Maximum torque per ampere control with direct voltage control for IPMSM drive systems. International Journal of Electrical Power and Energy Systems, 2020, 116, 105509.	5.5	8
188	Guest Editorial: Special Issue on recent advancements in electric power system planning with high-penetration of renewable energy resources and dynamic loads. International Journal of Electrical Power and Energy Systems, 2021, 129, 106597.	5.5	8
189	A similarity-based framework for incipient fault detection in underground power cables. International Journal of Electrical Power and Energy Systems, 2021, 133, 107309.	5.5	8
190	A wavelet transform-based protection scheme of multi-terminal HVDC system. , 2016, , .		8
191	Normalized Deleted Residual Test for Identifying Interacting Bad Data in Power System State Estimation. IEEE Transactions on Power Systems, 2022, 37, 4006-4016.	6.5	8
192	New approach of adaptive automatic load shedding. European Transactions on Electrical Power, 2001, 11, 329-334.	1.0	7
193	Setup of the laboratory for Synchronized Measurement for PMU's testing. , 2009, , .		7
194	Procedure for estimation of equivalent model parameters for a wind farm using post-disturbance on-line measurement data. , 2011, , .		7
195	An enterprise platform for wide area monitoring of load dynamics using Synchronized Measurement Technology. IFAC-PapersOnLine, 2016, 49, 85-90.	0.9	7
196	A post-processing methodology for robust spectral embedded clustering of power networks. , 2017, , .		7
197	Synchronized measurement technology supported AC and HVDC online disturbance detection. Electric Power Systems Research, 2018, 160, 308-317.	3.6	7
198	Optimal utilisation of PMU measurements in power system hybrid state estimators. IET Generation, Transmission and Distribution, 2019, 13, 4978-4986.	2.5	7

#	Article	IF	Citations
199	Modeling DFIGâ€based system frequency response for frequency trajectory sensitivity analysis. International Transactions on Electrical Energy Systems, 2019, 29, e2774.	1.9	7
200	Dual use line relays to improve power swing deblocking function. International Journal of Electrical Power and Energy Systems, 2020, 121, 106156.	5.5	7
201	Development of GB distribution networks with low carbon technologies and smart solutions: Scenarios and results. International Journal of Electrical Power and Energy Systems, 2020, 119, 105832.	5.5	7
202	Monitoring of fault level in future grid scenarios with high penetration of power electronicsâ€based renewable generation. IET Generation, Transmission and Distribution, 2021, 15, 294-305.	2.5	7
203	An improved algorithm for cubature Kalman filter based forecastingâ€aided state estimation and anomaly detection. International Transactions on Electrical Energy Systems, 2021, 31, e12714.	1.9	7
204	Numerical algorithm for overhead lines protection and disturbance records analysis. IET Generation, Transmission and Distribution, 2007, 1, 357.	2.5	6
205	Synchronized Phasor Measurement on the All-Ireland Electrical Network. , 2007, , .		6
206	PMU-based multi-area state estimation with low data exchange. , 2010, , .		6
207	Development of a flexible laboratory testing platform for assessing steady-state and transient performance of WAMS. , 2011, , .		6
208	Optimal placement of Phasor Measurement Units to Improve Parallel Power System Restoration. , 2011, , .		6
209	New parameter-free fault location algorithm for transmission lines in phasor domain. , 2012, , .		6
210	Controlled islanding of power networks based on graph reduction and spectral clustering. , 2016, , .		6
211	Computation of internal voltage distribution in transformer windings by utilizing a voltage distribution factor. Electric Power Systems Research, 2016, 138, 11-17.	3.6	6
212	A Screening Rule-Based Iterative Numerical Method for Observability Analysis. IEEE Transactions on Power Systems, 2017, 32, 4188-4198.	6.5	6
213	Long-Term Frequency Stability Assessment Based on Extended Frequency Response Model. IEEE Access, 2020, 8, 122444-122455.	4.2	6
214	State-of-the-art of data collection, analytics, and future needs of transmission utilities worldwide to account for the continuous growth of sensing data. International Journal of Electrical Power and Energy Systems, 2022, 137, 107772.	5.5	6
215	On-line parameter estimation of saturated synchronous machines. , 2011, , .		5
216	Induction generator model parameter estimation using improved particle swarm optimization and on-line response to a change in frequency. , 2011, , .		5

#	Article	IF	Citations
217	On implementing a spectral clustering controlled islanding algorithm in real power systems. , 2013, , .		5
218	Guest editorial: special issue on wide area monitoring, protection and control in smart grid. Journal of Modern Power Systems and Clean Energy, 2016, 4, 317-318.	5.4	5
219	Reducing excessive standing phase angle differences: A new approach based on OPF and wide area measurements. International Journal of Electrical Power and Energy Systems, 2016, 78, 13-21.	5.5	5
220	Evaluation of DFIGsâ€™ Primary Frequency Regulation Capability for Power Systems with High Penetration of Wind Power. Energies, 2020, 13, 6178.	3.1	5
221	An adaptive method for tuning process noise covariance matrix in EKF-based three-phase distribution system state estimation. International Journal of Electrical Power and Energy Systems, 2021, 132, 107192.	5.5	5
222	Power system anomaly detection using innovation reduction properties of iterated extended kalman filter. International Journal of Electrical Power and Energy Systems, 2022, 136, 107613.	5.5	5
223	Comparative Study of Symmetrical Controlled Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2022, 37, 3954-3968.	7.9	5
224	An algorithm for frequency relaying based on the Newton-Raphson method. Electric Power Systems Research, 1994, 31, 119-124.	3.6	4
225	Numerical algorithm for blocking autoreclosure during permanent faults on overhead lines. Electric Power Systems Research, 1998, 46, 51-58.	3.6	4
226	Detection of Arcing Faults: Modelling, Simulation, Testing and Algorithms Aspects. , 2007, , .		4
227	Adaptive Underfrequency Load Shedding Based on the Magnitude of the Disturbance Estimation. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	4
228	Phasor estimation considering DC component using UKF. , 2011, , .		4
229	A smart power system restoration based on the merger of two different strategies. , 2012, , .		4
230	Impact of battery energy storage system on dynamic properties of isolated power systems. , 2013, , .		4
231	Impact of load dynamics on torsional interactions. , 2016, , .		4
232	Methodology for testing a parameter-free fault locator for transmission lines. Electric Power Systems Research, 2016, 138, 92-98.	3.6	4
233	Testing and validation of a dynamic estimator of states in OPAL-RT real time simulator. , 2017, , .		4
234	Small Signal Based Frequency Response Analysis for Power Systems. , 2018, , .		4

#	Article	IF	Citations
235	A Novel Adaptive Supervisory Controller for Optimized Voltage Controlled Demand Response. IEEE Transactions on Smart Grid, 2019, 10, 4201-4210.	9.0	4
236	A Review of Low Voltage Ride Through in DFIG under Unbalanced Grid Faults. , 2019, , .		4
237	An explicit formulation for synchronous machine model in terms of the manufacturer data. International Journal of Electrical Power and Energy Systems, 2019, 108, 9-18.	5.5	4
238	Security and optimization rule-based coordinated generator simultaneous tap changing dispatch scheme for transmission voltage regulation. International Journal of Electrical Power and Energy Systems, 2020, 114, 105366.	5.5	4
239	Development of GB distribution networks with low carbon technologies and smart solutions: Methodology. International Journal of Electrical Power and Energy Systems, 2020, 119, 105833.	5.5	4
240	Local photovoltaic reactive power controller for increasing active distribution networks hosting capacity. IET Generation, Transmission and Distribution, 2020, 14, 5152-5162.	2.5	4
241	NUMERICAL ALGORITHM FOR ARCING FAULTS DETECTION AND FAULT DISTANCE CALCULATION ON OVERHEAD LINES. Electric Power Components and Systems, 1997, 25, 939-953.	0.1	3
242	Power system steadyâ€state estimation Mâ€robust approach with measurement applications. European Transactions on Electrical Power, 1999, 9, 247-253.	1.0	3
243	Adaptive algorithm for estimation of voltage phasor, frequency and rate of change of frequency. European Transactions on Electrical Power, 1994, 4, 243-249.	1.0	3
244	Rotor angle instability prediction using post-disturbance voltage trajectories. , 2010, , .		3
245	Estimation of load model parameters from instantaneous voltage and current. , 2011, , .		3
246	Two-step spectral clustering controlled islanding algorithm. , 2013, , .		3
247	Closure to Discussion on â€œTwo-Step Spectral Clustering Controlled Islanding Algorithmâ€• IEEE Transactions on Power Systems, 2014, 29, 413-414.	6.5	3
248	Estimation of load model parameters from PMU measurements. , 2014, , .		3
249	Addressing emerging network management needs with enhanced WAMS in the GB VISOR project. , 2016, , .		3
250	Optimized Control of LCLâ€“VSC Converter With Refined <italic>s</italic>-Parameter. IEEE Transactions on Power Delivery, 2017, 32, 2101-2110.	4.3	3
251	Modifying IEC 60909 Standard to Consider Fault Contribution from Renewable Energy Resources Utilizing Fully-Rated Converters. , 2019, , .		3
252	A novel adaptive linear prediction-based parameter estimation method for monitoring sub-/inter-harmonics during SSI events. International Journal of Electrical Power and Energy Systems, 2021, 132, 107133.	5.5	3

#	Article	IF	Citations
253	An Embedded Estimator for Online Harmonic Monitoring in Power-Electronic Grids. IEEE Transactions on Smart Grid, 2022, 13, 4677-4689.	9.0	3
254	Wide-Area Event Identification in Power Systems: A Review of the State-of-the-Art. , 2022, , .		3
255	DETECTION OF ARCING FAULTS ON OVERHEAD LINES FROM VOLTAGE AND CURRENT SIGNALS. Electric Power Components and Systems, 1997, 25, 745-755.	0.1	2
256	Two-Stage Improved Recursive Newton Type Algorithm for Power Quality Indices Estimation. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	2
257	Intelligent two-port numerical algorithm for transmission lines disturbance records analysis. Electrical Engineering, 2008, 90, 323-330.	2.0	2
258	Application of parameter estimation methods to the assessment of DFIG;s currents. , 2009, , .		2
259	A novel controlled islanding algorithm based on constrained spectral clustering. , 2011, , .		2
260	Line parameter-free fault location algorithm for series compensated transmission lines. , 2013, , .		2
261	Mitigating SSR: The threat of hidden critical lines and WAMS as a solution. , 2016, , .		2
262	Optimal PMU Placement Framework Under Observability Redundancy and Contingencyâ€"An Evolutionary Algorithm Using DIgSILENT Programming Language Module. Green Energy and Technology, 2018, , 241-277.	0.6	2
263	Probabilistic Optimal PV Capacity Planning for Wind Farm Expansion Based on NASA Data. , 2018, , .		2
264	Spectral MST-Based Graph Outlier Detection with Application to Clustering of Power Networks. , 2018, , .		2
265	A simple algorithm for the symmetrical components relaying and monitoring. Archiv Fuer Elektrotechnik, 1996, 79, 207-212.	0.1	1
266	Long arc in free air elongation effects modeling and simulation. European Transactions on Electrical Power, 2002, 12, 419-425.	1.0	1
267	Two Terminals Numerical Algorithm for Fault Distance Calculation and Fault Analysis. , 2006, , .		1
268	Robust Estimation Algorithm for Power Components Measurement. , 2006, , .		1
269	Amplitude and frequency estimation during sudden generator disconnection using UKF. , 2012, , .		1
270	On evaluating the performance of intentional controlled islanding schemes. , 2013, , .		1

#	Article	IF	Citations
271	Smart application for inter-area oscillations monitoring based on Newton-type algorithm. International Transactions on Electrical Energy Systems, 2016, 26, 2370-2384.	1.9	1
272	Impact of location and composition of dynamic load on the severity of SSR in meshed power systems. , 2017, , .		1
273	Assessment of OLTC contributions to voltage controlled demand response using structural equation models. , 2017, , .		1
274	A Method for Accurate Parameter Estimation of Series Compensated Transmission Lines Using Synchronized Data. , 2018, , .		1
275	Generator grouping cutset determination based on tree construction and constrained spectral clustering. Journal of Engineering, 2018, 2018, 1309-1314.	1.1	1
276	Noncomunication Accelerated Sequential Tripping for Remote-End Faults On Transmission Lines. , 2019, , .		1
277	Wide area interâ€area oscillation control system in a GB electric power system. Journal of Engineering, 2019, 2019, 3294-3300.	1.1	1
278	An embedded VFAF in DFIG-based wind farms for SSCI mitigation. International Journal of Electrical Power and Energy Systems, 2022, 137, 107765.	5.5	1
279	Using Branch Current Measurements for Parameter Identification in Extended Kalman Filter based Distribution System State Estimation. , 2021, , .		1
280	Non-Homogeneous Sampling Rate Wide Area Backup Protection using Synchrophasors and IED Data. , 2022, , .		1
281	Power components estimation using two-stage Newton type algorithm. Electrical Engineering, 2007, 89, 591-600.	2.0	0
282	Electrical power quality indices estimation during severe signal distortions in medium voltage networks. , 2008, , .		0
283	STLS algorithm for power quality indices estimation. , 2008, , .		0
284	Settings-free method to account for shunt admittance in fault location. , 2012, , .		0
285	On-line demagnetization method for an iron core CT. , 2015, , .		0
286	Economic optimisation of the actions of an enhanced Operational Tripping Scheme. , 2016, , .		0
287	The DC circuit breaker with necessary bidirectional interruption capability. , 2016, , .		0
288	Discovering Clusters in Power Networks From Orthogonal Structure of Spectral Embedding. , 2019, , .		0