List of Publications by Year in descending order

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<u> Уомс Ци</u>

#	Article	IF	CITATIONS
1	Wide-Area Frequency Monitoring Network (FNET) Architecture and Applications. IEEE Transactions on Smart Grid, 2010, 1, 159-167.	9.0	376
2	Power System Frequency Monitoring Network (FNET) Implementation. IEEE Transactions on Power Systems, 2005, 20, 1914-1921.	6.5	283
3	A method for determining customer and utility harmonic contributions at the point of common coupling. IEEE Transactions on Power Delivery, 2000, 15, 804-811.	4.3	250
4	Power System Transient Stability Assessment Based on Big Data and the Core Vector Machine. IEEE Transactions on Smart Grid, 2016, 7, 2561-2570.	9.0	225
5	A combined ANN and expert system tool for transformer fault diagnosis. IEEE Transactions on Power Delivery, 1998, 13, 1224-1229.	4.3	182
6	An investigation on the validity of power-direction method for harmonic source determination. IEEE Transactions on Power Delivery, 2003, 18, 214-219.	4.3	161
7	Robust Energy Management of Microgrid With Uncertain Renewable Generation and Load. IEEE Transactions on Smart Grid, 2015, , 1-1.	9.0	135
8	Learning Temporal and Spatial Correlations Jointly: A Unified Framework for Wind Speed Prediction. IEEE Transactions on Sustainable Energy, 2020, 11, 509-523.	8.8	133
9	Dynamic Single-Phase Synchronized Phase and Frequency Estimation at the Distribution Level. IEEE Transactions on Smart Grid, 2015, 6, 2013-2022.	9.0	123
10	Optical fiber sensor-based detection of partial discharges in power transformers. Optics and Laser Technology, 2001, 33, 305-311.	4.6	109
11	Multiple Event Detection and Recognition Through Sparse Unmixing for High-Resolution Situational Awareness in Power Grid. IEEE Transactions on Smart Grid, 2014, 5, 1654-1664.	9.0	107
12	Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control. IEEE Transactions on Power Systems, 2020, 35, 950-961.	6.5	104
13	Catastrophic Failures in Power Systems: Causes, Analyses, and Countermeasures. Proceedings of the IEEE, 2005, 93, 956-964.	21.3	98
14	Wide-Area-Measurement System Development at the Distribution Level: An FNET/GridEye Example. IEEE Transactions on Power Delivery, 2016, 31, 721-731.	4.3	96
15	A Clarke Transformation-Based DFT Phasor and Frequency Algorithm for Wide Frequency Range. IEEE Transactions on Smart Grid, 2018, 9, 67-77.	9.0	95
16	Design and Implementation of a Real-Time Off-Grid Operation Detection Tool from a Wide-Area Measurements Perspective. IEEE Transactions on Smart Grid, 2015, 6, 2080-2087.	9.0	89
17	Application of Power System Frequency for Digital Audio Authentication. IEEE Transactions on Power Delivery, 2012, 27, 1820-1828.	4.3	87
18	Wavelet Networks in Power Transformers Diagnosis Using Dissolved Gas Analysis. IEEE Transactions on Power Delivery, 2009, 24, 187-194.	4.3	83

#	Article	IF	CITATIONS
19	Wind Speed Prediction with Spatio–Temporal Correlation: A Deep Learning Approach. Energies, 2018, 11, 705.	3.1	83
20	Application of wide area measurement systems to islanding detection of bulk power systems. IEEE Transactions on Power Systems, 2013, 28, 2006-2015.	6.5	75
21	A Phase Locked Loop-Based Approach to Real-Time Modal Analysis on Synchrophasor Measurements. IEEE Transactions on Smart Grid, 2014, 5, 260-269.	9.0	75
22	Frequency Regulation and Oscillation Damping Contributions of Variable-Speed Wind Generators in the U.S. Eastern Interconnection (EI). IEEE Transactions on Sustainable Energy, 2015, 6, 951-958.	8.8	73
23	Frequency Response Assessment and Enhancement of the U.S. Power Grids Toward Extra-High Photovoltaic Generation Penetrations—An Industry Perspective. IEEE Transactions on Power Systems, 2018, 33, 3438-3449.	6.5	73
24	Single-Phase Phase Angle Measurements in Electric Power Systems. IEEE Transactions on Power Systems, 2010, 25, 844-852.	6.5	72
25	Impact of High PV Penetration on the Inter-Area Oscillations in the U.S. Eastern Interconnection. IEEE Access, 2017, 5, 4361-4369.	4.2	72
26	A Distribution Level Wide Area Monitoring System for the Electric Power Grid–FNET/GridEye. IEEE Access, 2017, 5, 2329-2338.	4.2	71
27	A Model Predictive Control Based Generator Start-Up Optimization Strategy for Restoration With Microgrids as Black-Start Resources. IEEE Transactions on Power Systems, 2018, 33, 7189-7203.	6.5	71
28	Rough set and fuzzy wavelet neural network integrated with least square weighted fusion algorithm based fault diagnosis research for power transformers. Electric Power Systems Research, 2008, 78, 129-136.	3.6	70
29	Data-Driven Event Detection of Power Systems Based on Unequal-Interval Reduction of PMU Data and Local Outlier Factor. IEEE Transactions on Smart Grid, 2020, 11, 1630-1643.	9.0	70
30	Impact of GPS Signal Loss and Its Mitigation in Power System Synchronized Measurement Devices. IEEE Transactions on Smart Grid, 2018, 9, 1141-1149.	9.0	69
31	Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources. IEEE Transactions on Power Systems, 2020, 35, 3574-3587.	6.5	68
32	Non-Invasive Identification of Inertia Distribution Change in High Renewable Systems Using Distribution Level PMU. IEEE Transactions on Power Systems, 2018, 33, 1110-1112.	6.5	66
33	A Novel Approach to Interarea Oscillation Damping by Unified Power Flow Controllers Utilizing Ultracapacitors. IEEE Transactions on Power Systems, 2010, 25, 404-412.	6.5	65
34	Review of hybrid HVDC systems combining line communicated converter and voltage source converter. International Journal of Electrical Power and Energy Systems, 2021, 129, 106713.	5.5	65
35	Frequency Disturbance Event Detection Based on Synchrophasors and Deep Learning. IEEE Transactions on Smart Grid, 2020, 11, 3593-3605.	9.0	64
36	Recent developments of FNET/GridEye — A situational awareness tool for smart grid. CSEE Journal of Power and Energy Systems, 2016, 2, 19-27.	1.1	63

#	Article	IF	CITATIONS
37	Data quality issues for synchrophasor applications Part I: a review. Journal of Modern Power Systems and Clean Energy, 2016, 4, 342-352.	5.4	63
38	Dynamic Phasor Model-Based Synchrophasor Estimation Algorithm for M-Class PMU. IEEE Transactions on Power Delivery, 2015, 30, 1162-1171.	4.3	61
39	Analysis of Nonlinear Characteristics for a Three-Phase, Five-Limb Transformer Under DC Bias. IEEE Transactions on Power Delivery, 2010, 25, 2504-2510.	4.3	59
40	Distributed Data Analytics Platform for Wide-Area Synchrophasor Measurement Systems. IEEE Transactions on Smart Grid, 2016, 7, 2397-2405.	9.0	59
41	Research on Unstructured Text Data Mining and Fault Classification Based on RNN-LSTM with Malfunction Inspection Report. Energies, 2017, 10, 406.	3.1	59
42	Fault Characteristics of Distributed Solar Generation. IEEE Transactions on Power Delivery, 2020, 35, 1062-1064.	4.3	58
43	Model-Free Data Authentication for Cyber Security in Power Systems. IEEE Transactions on Smart Grid, 2020, 11, 4565-4568.	9.0	58
44	Reducing losses in distribution transformers. IEEE Transactions on Power Delivery, 2003, 18, 821-826.	4.3	57
45	A Novel Equivalent Model of Active Distribution Networks Based on LSTM. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2611-2624.	11.3	57
46	ENF Extraction From Digital Recordings Using Adaptive Techniques and Frequency Tracking. IEEE Transactions on Information Forensics and Security, 2012, 7, 1330-1338.	6.9	55
47	Oscillation mode identification based on wide-area ambient measurements using multivariate empirical mode decomposition. Electric Power Systems Research, 2016, 134, 158-166.	3.6	55
48	Potential Compensation Method for Restraining the DC Bias of Transformers During HVDC Monopolar Operation. IEEE Transactions on Power Delivery, 2016, 31, 103-111.	4.3	54
49	A US-Wide Power Systems Frequency Monitoring Network. , 2006, , .		53
50	A Distributed Power System Control Architecture for Improved Distribution System Resiliency. IEEE Access, 2019, 7, 9957-9970.	4.2	52
51	SF ₆ decomposition and insulation condition monitoring of GIE: A review. High Voltage, 2021, 6, 955-966.	4.7	52
52	Transient modeling and simulation of a SMES coil and the power electronics interface. IEEE Transactions on Applied Superconductivity, 1999, 9, 4715-4724.	1.7	51
53	Frequency Sensitivity and Electromechanical Propagation Simulation Study in Large Power Systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1819-1828.	0.1	51
54	Neural net and expert system diagnose transformer faults. IEEE Computer Applications in Power, 2000, 13, 50-55.	0.2	49

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55	Internet based frequency monitoring network (FNET). , 0, , .		49
56	Wide-area Frequency Based Event Location Estimation. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	49
57	Partial discharge recognition in gas insulated switchgear based on multi-information fusion. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1080-1087.	2.9	49
58	Source Location Identification of Distribution-Level Electric Network Frequency Signals at Multiple Geographic Scales. IEEE Access, 2017, 5, 11166-11175.	4.2	49
59	Analytical Assessment for Transient Stability Under Stochastic Continuous Disturbances. IEEE Transactions on Power Systems, 2018, 33, 2004-2014.	6.5	49
60	A Fast Load Control System Based on Mobile Distribution-Level Phasor Measurement Unit. IEEE Transactions on Smart Grid, 2020, 11, 895-904.	9.0	48
61	An Adaptive PV Frequency Control Strategy Based on Real-Time Inertia Estimation. IEEE Transactions on Smart Grid, 2021, 12, 2355-2364.	9.0	45
62	Power system event location analysis using wide-area measurements. , 2006, , .		44
63	Battery and backup generator sizing for a resilient microgrid under stochastic extreme events. IET Generation, Transmission and Distribution, 2018, 12, 4443-4450.	2.5	44
64	Multiple Event Detection and Recognition for Large-Scale Power Systems Through Cluster-Based Sparse Coding. IEEE Transactions on Power Systems, 2017, 32, 4199-4210.	6.5	43
65	Study of Wind and PV Frequency Control in U.S. Power Grids—EI and TI Case Studies. IEEE Power and Energy Technology Systems Journal, 2017, 4, 65-73.	2.8	43
66	Comparative Assessment of Tactics to Improve Primary Frequency Response Without Curtailing Solar Output in High Photovoltaic Interconnection Grids. IEEE Transactions on Sustainable Energy, 2019, 10, 718-728.	8.8	43
67	Optimal Sizing of Energy Storage System in Active Distribution Networks Using Fourier–Legendre Series Based State of Energy Function. IEEE Transactions on Power Systems, 2018, 33, 2313-2315.	6.5	42
68	Data-Driven Event Identification in the U.S. Power Systems Based on 2D-OLPP and RUSBoosted Trees. IEEE Transactions on Power Systems, 2022, 37, 94-105.	6.5	42
69	Frequency Disturbance Recorder Design and Developments. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	41
70	Data quality issues for synchrophasor applications Part II: problem formulation and potential solutions. Journal of Modern Power Systems and Clean Energy, 2016, 4, 353-361.	5.4	41
71	Frequency Injection Based HVDC Attack-Defense Control Via Squeeze-Excitation Double CNN. IEEE Transactions on Power Systems, 2021, 36, 5305-5316.	6.5	41
72	Internet-based SCADA display system. IEEE Computer Applications in Power, 2002, 15, 14-19.	0.2	40

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73	Study of global frequency dynamic behavior of large power systems. , 0, , .		38
74	Comparative analysis of exciting current harmonics and reactive power consumption from GIC saturated transformers. , 0, , .		37
75	Frequency Prediction of Power Systems in FNET Based on State-Space Approach and Uncertain Basis Functions. IEEE Transactions on Power Systems, 2014, 29, 2602-2612.	6.5	37
76	Design and implementation of a measurement-based adaptive wide-area damping controller considering time delays. Electric Power Systems Research, 2016, 130, 1-9.	3.6	37
77	A Deep End-to-End Model for Transient Stability Assessment With PMU Data. IEEE Access, 2018, 6, 65474-65487.	4.2	36
78	A Two Terminal Network-Based Method for Discrimination Between Internal Faults and Inrush Currents. IEEE Transactions on Power Delivery, 2010, 25, 1599-1605.	4.3	35
79	Identifying Transformer Inrush Current Based on Normalized Grille Curve. IEEE Transactions on Power Delivery, 2011, 26, 588-595.	4.3	35
80	VSC-HVDC Interties for Urban Power Grid Enhancement. IEEE Transactions on Power Systems, 2021, 36, 4745-4753.	6.5	34
81	A measurement-based power system model for dynamic response estimation and instability warning. Electric Power Systems Research, 2015, 124, 1-9.	3.6	33
82	Novel Fault Location Method for Power Systems Based on Attention Mechanism and Double Structure GRU Neural Network. IEEE Access, 2020, 8, 75237-75248.	4.2	33
83	Utilization of Chip-Scale Atomic Clock for Synchrophasor Measurements. IEEE Transactions on Power Delivery, 2016, 31, 2299-2300.	4.3	32
84	Fast and Accurate Frequency Response Estimation for Large Power System Disturbances Using Second Derivative of Frequency Data. IEEE Transactions on Power Systems, 2020, 35, 2483-2486.	6.5	32
85	Spatio-Temporal Characterization of Synchrophasor Data Against Spoofing Attacks in Smart Grids. IEEE Transactions on Smart Grid, 2019, 10, 5807-5818.	9.0	31
86	A Station-Hybrid HVDC System Structure and Control Strategies for Cross-Seam Power Transmission. IEEE Transactions on Power Systems, 2021, 36, 379-388.	6.5	31
87	A study on applications of energy storage for the wind power operation in power systems. , 2006, , .		30
88	Deep learning model to detect various synchrophasor data anomalies. IET Generation, Transmission and Distribution, 2020, 14, 5739-5745.	2.5	30
89	An Improved Discrete Fourier Transform-Based Algorithm for Electric Network Frequency Extraction. IEEE Transactions on Information Forensics and Security, 2013, 8, 1173-1181.	6.9	29
90	A Gain Scheduling Wide-Area Damping Controller for the Efficient Integration of Photovoltaic Plant. IEEE Transactions on Power Systems, 2019, 34, 1703-1715.	6.5	29

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91	Multi-View Convolutional Neural Network for Data Spoofing Cyber-Attack Detection in Distribution Synchrophasors. IEEE Transactions on Smart Grid, 2020, 11, 3457-3468.	9.0	29
92	Online Detection of Start Time and Location for Hypocenter in North America Power Grid. IEEE Transactions on Smart Grid, 2010, 1, 253-260.	9.0	28
93	Inter-area oscillation analysis using wide area voltage angle measurements from FNET. , 2010, , .		28
94	A Novel, Stable, and Economic Power Sharing Scheme for an Autonomous Microgrid in the Energy Internet. Energies, 2015, 8, 12741-12764.	3.1	28
95	Active power control of solar PV generation for large interconnection frequency regulation and oscillation damping. International Journal of Energy Research, 2016, 40, 353-361.	4.5	28
96	A Novel Method for Phasor Measurement Unit Sampling Time Error Compensation. IEEE Transactions on Smart Grid, 2018, 9, 1063-1072.	9.0	28
97	GPS signal loss in the wide area monitoring system: Prevalence, impact, and solution. Electric Power Systems Research, 2017, 147, 254-262.	3.6	28
98	Analytic Analysis for Dynamic System Frequency in Power Systems Under Uncertain Variability. IEEE Transactions on Power Systems, 2019, 34, 982-993.	6.5	28
99	Learning Heterogeneous Features Jointly: A Deep End-to-End Framework for Multi-Step Short-Term Wind Power Prediction. IEEE Transactions on Sustainable Energy, 2020, 11, 1761-1772.	8.8	28
100	A Review on Artificial Intelligence for Grid Stability Assessment. , 2020, , .		28
101	Measurementâ€based correlation approach for power system dynamic response estimation. IET Generation, Transmission and Distribution, 2015, 9, 1474-1484.	2.5	27
102	Stochastic Dynamic Analysis for Power Systems Under Uncertain Variability. IEEE Transactions on Power Systems, 2018, 33, 3789-3799.	6.5	27
103	Noise Analysis of Power System Frequency Estimated From Angle Difference of Discrete Fourier Transform Coefficient. IEEE Transactions on Power Delivery, 2014, 29, 1533-1541.	4.3	26
104	A Measurement Source Authentication Methodology for Power System Cyber Security Enhancement. IEEE Transactions on Smart Grid, 2018, 9, 3914-3916.	9.0	26
105	Universal Grid Analyzer design and development. , 2015, , .		25
106	Dynamic performance of a static synchronous compensator with energy storage. , 0, , .		24
107	Analysis of system oscillations using wide-area measurements. , 2006, , .		24
108	Analysis of Power System Disturbances Based on Wide-Area Frequency Measurements. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	24

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109	A novel RNN based load modelling method with measurement data in active distribution system. Electric Power Systems Research, 2019, 166, 112-124.	3.6	24
110	Wide-area frequency as a criterion for digital audio recording authentication. , 2011, , .		23
111	Disturbance location determination based on electromechanical wave propagation in FNET/GridEye: a distributionâ€level wideâ€area measurement system. IET Generation, Transmission and Distribution, 2017, 11, 4436-4443.	2.5	23
112	Frequency Observations and Statistic Analysis of Worldwide Main Power Grids Using FNET/GridEye. , 2019, , .		23
113	Phase angleâ€based power system interâ€area oscillation detection and modal analysis. European Transactions on Electrical Power, 2011, 21, 1629-1639.	1.0	22
114	Generation-Load Mismatch Detection and Analysis. IEEE Transactions on Smart Grid, 2012, 3, 105-112.	9.0	22
115	Real-Time Control and Operation for a Flexible Microgrid with Dynamic Boundary. , 2018, , .		22
116	A Review of Clean Electricity Policies—From Countries to Utilities. Sustainability, 2020, 12, 7946.	3.2	22
117	Generator Trip Identification Using Wide-Area Measurements and Historical Data Analysis. , 2006, , .		21
118	A measurement-based approach for power system instability early warning. Protection and Control of Modern Power Systems, 2016, 1, .	7.5	21
119	Pioneer Design of Non-Contact Synchronized Measurement Devices Using Electric and Magnetic Field Sensors. IEEE Transactions on Smart Grid, 2018, 9, 5622-5630.	9.0	21
120	New Criterion of Converter Transformer Differential Protection Based on Wavelet Energy Entropy. IEEE Transactions on Power Delivery, 2019, 34, 980-990.	4.3	21
121	Timestamp Shift Detection for Synchrophasor Data Based on Similarity Analysis Between Relative Phase Angle and Frequency. IEEE Transactions on Power Delivery, 2020, 35, 1588-1591.	4.3	21
122	Analysis of wide-area frequency measurement of bulk power systems. , 2006, , .		20
123	Visualization of wide area measurement information from the FNET system. , 2011, , .		20
124	Multi-Interharmonic Spectrum Separation and Measurement Under Asynchronous Sampling Condition. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1902-1912.	4.7	20
125	Identification of Lightning Strike on 500-kV Transmission Line Based on the Time-Domain Parameters of a Traveling Wave. IEEE Access, 2016, 4, 7241-7250.	4.2	20
126	Impact of Low Data Quality on Disturbance Triangulation Application Using High-Density PMU Measurements. IEEE Access, 2019, 7, 105054-105061.	4.2	20

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127	Detection of Synchrophasor False Data Injection Attack Using Feature Interactive Network. IEEE Transactions on Smart Grid, 2021, 12, 659-670.	9.0	20
128	Integrating Transactive Energy Into Reliability Evaluation for a Self-Healing Distribution System With Microgrid. IEEE Transactions on Sustainable Energy, 2022, 13, 122-134.	8.8	20
129	STEPS: A Portable Dynamic Simulation Toolkit for Electrical Power System Studies. IEEE Transactions on Power Systems, 2021, 36, 3216-3226.	6.5	20
130	FNET: A Quickly Deployable and Economic System to Monitor the Electric Grid. , 2007, , .		19
131	Wide area power system visualization using real-time synchrophasor measurements. , 2010, , .		19
132	Impact Study of PMSG-Based Wind Power Penetration on Power System Transient Stability Using EEAC Theory. Energies, 2015, 8, 13419-13441.	3.1	19
133	Thoughts on future Internet based power system information network architecture. , 0, , .		18
134	Non-Parametric Power System Event Location Using Wide-Area Measurements. , 2006, , .		18
135	Application of synchrophasor measurements for improving operator situational awareness. , 2011, , .		18
136	A novel high-density power energy harvesting methodology for transmission line online monitoring devices. Review of Scientific Instruments, 2016, 87, 075119.	1.3	18
137	Coordinated Control of DFIG Based Wind Farms and SGs for Improving Transient Stability. IEEE Access, 2018, 6, 46844-46855.	4.2	18
138	UPS: Unified PMU-Data Storage System to Enhance T+D PMU Data Usability. IEEE Transactions on Smart Grid, 2020, 11, 739-748.	9.0	18
139	LAN-based control for load shedding. IEEE Computer Applications in Power, 2001, 14, 38-43.	0.2	17
140	Estimating Speed of Frequency Disturbance Propagation Through Transmission and Distribution Systems. , 2006, , .		17
141	Visualization of Wide-Area Frequency Measurement Information. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	17
142	Formation Characteristics of SF ₆ Decomposition under Partial Discharge Induced by Metal Protrusions with Varying Degrees of Severity. Electric Power Components and Systems, 2014, 42, 1839-1848.	1.8	17
143	A Fast Power Grid Frequency Estimation Approach Using Frequency-Shift Filtering. IEEE Transactions on Power Systems, 2019, 34, 2461-2464.	6.5	17
144	Angular Dependence of the Frequency Response of an Extrinsic Fabry–PÉrot Interferometric (EFPI) Fiber Acoustic Sensor for Partial Discharge Detection. Journal of Lightwave Technology, 2006, 24, 3433-3438.	4.6	16

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145	Monitoring power system disturbances based on distribution-level phasor measurements. , 2012, , .		16
146	Measurement accuracy limitation analysis on synchrophasors. , 2015, , .		16
147	kBF: Towards Approximate and Bloom Filter based Key-Value Storage for Cloud Computing Systems. IEEE Transactions on Cloud Computing, 2017, 5, 85-98.	4.4	16
148	Hybrid Data-Driven Based HVdc Ancillary Control for Multiple Frequency Data Attacks. IEEE Transactions on Industrial Informatics, 2021, 17, 8035-8045.	11.3	16
149	Simulation of transformer PD pulse propagation and monitoring for a 500 kV substation. IEEE Transactions on Dielectrics and Electrical Insulation, 1999, 6, 803-813.	2.9	15
150	Frequency-based real-time line trip detection and alarm trigger development. , 2014, , .		15
151	Identification of interarea modes from ringdown data by curve-fitting in the frequency domain. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	15
152	Synchrophasor Data Compression Under Disturbance Conditions via Cross-Entropy-Based Singular Value Decomposition. IEEE Transactions on Industrial Informatics, 2021, 17, 2716-2726.	11.3	15
153	Time-frequency based cyber security defense of wide-area control system for fast frequency reserve. International Journal of Electrical Power and Energy Systems, 2021, 132, 107151.	5.5	15
154	Assessment of harmonic resonance potential for shunt capacitor applications. Electric Power Systems Research, 2001, 57, 97-104.	3.6	14
155	Monitoring power system disturbances at the distribution level. , 2008, , .		14
156	Events associated power system oscillations observation based on distribution-level phasor measurements. , 2014, , .		14
157	Wide-area measurement data analytics using FNET/GridEye: A review. , 2016, , .		14
158	A Microgrid Monitoring System Over Mobile Platforms. IEEE Transactions on Smart Grid, 2016, , 1-10.	9.0	14
159	A Comprehensive Method to Mitigate Forced Oscillations in Large Interconnected Power Grids. IEEE Access, 2021, 9, 22503-22515.	4.2	14
160	EAF voltage flicker mitigation by FACTS/ESS. , 0, , .		13
161	An evaluation of network time protocol for clock synchronization in wide area measurements. , 2008,		13
162	Analysis of power system disturbances based on distribution-level phasor measurements. , 2011, , .		13

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163	Efficient Histogram Estimation for Smart Grid Data Processing With the Loglog-Bloom-Filter. IEEE Transactions on Smart Grid, 2015, 6, 199-208.	9.0	13
164	Measurement-based frequency dynamic response estimation using geometric template matching and recurrent artificial neural network. CSEE Journal of Power and Energy Systems, 2016, 2, 10-18.	1.1	13
165	A Method for Filtering Low Frequency Disturbance in PMU Data Before Coordinated Usage in SCADA. IEEE Transactions on Power Systems, 2017, 32, 2810-2816.	6.5	13
166	Impact of the Measurement Errors on Synchrophasor-Based WAMS Applications. IEEE Access, 2019, 7, 143960-143972.	4.2	13
167	Harmonic transmission characteristics for ultra-long distance AC transmission lines based on frequency-length factor. Electric Power Systems Research, 2020, 182, 106189.	3.6	13
168	Data source authentication of synchrophasor measurement devices based on 1D-CNN and GRU. Electric Power Systems Research, 2021, 196, 107207.	3.6	13
169	Transmission power quality benefits realized by a SMES-FACTS controller. , 0, , .		12
170	Artificial intelligence in OLTC fault diagnosis using dissolved gas-in-oil information. , 0, , .		12
171	Internet based wide area information sharing and its roles in power system state estimation. , 0, , .		12
172	Use of Frequency Oscillations to Improve Event Location Estimation in Power Systems. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	12
173	Power system frequency oscillation characteristics. , 2008, , .		12
174	Analysis of societal event impacts on the power system frequency using FNET measurements. , 2011, , .		12
175	Measurement based power system dynamics prediction with multivariate AutoRegressive Model. , 2014, , , \cdot		12
176	SF ₆ gas decomposition analysis under point-to-plane 50 Hz AC corona discharge. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 799-805.	2.9	12
177	Developing High PV Penetration Cases for Frequency Response Study of U.S. Western Interconnection. , 2017, , .		12
178	Impact of high PV penetration on U.S. eastern interconnection frequency response. , 2017, , .		12
179	Impact of measurement errors on synchrophasor applications. , 2017, , .		12
180	Synchronized Wireless Measurement of High-Voltage Power System Frequency Using Mobile Embedded Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 2775-2784.	7.9	12

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181	A Smart and Flexible Microgrid With a Low-Cost Scalable Open-Source Controller. IEEE Access, 2021, 9, 162214-162230.	4.2	12
182	Self-Synchronizing Control and Frequency Response of Offshore Wind Farms Connected to Diode Rectifier Based HVDC System. IEEE Transactions on Sustainable Energy, 2022, 13, 1681-1692.	8.8	12
183	Frequency visualization in large electric power systems. , 0, , .		11
184	Effect of an electric field on copper sulphide deposition in oilâ€impregnated power transformers. IET Electric Power Applications, 2016, 10, 155-160.	1.8	11
185	Frequency control capability of Vsc-Hvdc for large power systems. , 2017, , .		11
186	Recent Development of Frequency Estimation Methods for Future Smart Grid. IEEE Open Access Journal of Power and Energy, 2020, 7, 354-365.	3.4	11
187	A method to determine customer harmonic contributions for incentive-based harmonic control applications. , 0, , .		10
188	FNET observations of low frequency oscillations in the eastern interconnection and their correlation with system events. , 2011, , .		10
189	Wide area frequency based generation trip event location estimation. , 2012, , .		10
190	Multiple event analysis for large-scale power systems through cluster-based sparse coding. , 2015, , .		10
191	A survey on next-generation power grid data architecture. , 2015, , .		10
192	Ring-down oscillation mode identification using multivariate Empirical Mode Decomposition. , 2016, , .		10
193	Interâ€area oscillation statistical analysis of the U.S. Eastern interconnection. Journal of Engineering, 2017, 2017, 595-605.	1.1	10
194	Comprehensive Evaluation and Application of GIS Insulation Condition Part 1: Selection and Optimization of Insulation Condition Comprehensive Evaluation Index Based on Multi-Source Information Fusion. IEEE Access, 2019, 7, 88254-88263.	4.2	10
195	Improved multiline HVDC circuit breakers with asymmetric conducting branches. International Journal of Electrical Power and Energy Systems, 2022, 137, 107882.	5.5	10
196	Precise ROCOF estimation algorithm for low inertia power grids. Electric Power Systems Research, 2022, 209, 107968.	3.6	10
197	Communication infrastructure design for strategic power infrastructure defense (SPID) system. , 0, , .		9

A US-wide power systems frequency monitoring network. , 2006, , .

#	Article	IF	CITATIONS
199	Electromechanical speed map development using FNET/GridEye frequency measurements. , 2014, , .		9
200	Visualization of distribution level voltage magnitude pattern trend in El system using FNET data. , 2014, , .		9
201	Application of wide area power system measurement for digital authentication. , 2016, , .		9
202	Adaptive wide-area damping control using measurement-driven model considering random time delay and data packet loss. , 2016, , .		9
203	Discrete Fourier transformâ€based parametric modal identification from ambient data of the power system frequency. IET Generation, Transmission and Distribution, 2016, 10, 213-220.	2.5	9
204	Impacts of Power Grid Frequency Deviation on Time Error of Synchronous Electric Clock and Worldwide Power System Practices on Time Error Correction. Energies, 2017, 10, 1283.	3.1	9
205	FNETVision: A WAMS Big Data Knowledge Discovery System. , 2018, , .		9
206	Frequency response reserves sharing across asynchronous grids through MTDC system. IET Generation, Transmission and Distribution, 2019, 13, 4952-4959.	2.5	9
207	Regional Area Protection Scheme for Modern Distribution System. IEEE Transactions on Smart Grid, 2019, 10, 5416-5426.	9.0	9
208	Advanced Synchrophasor-based Application for Potential Distributed Energy Resources Management: Key Technology, Challenge and Vision. , 2020, , .		9
209	Operation and control of hybrid HVDC system with LCC and fullâ€bridge MMC connected in parallel. IET Generation, Transmission and Distribution, 2020, 14, 1344-1352.	2.5	9
210	Dynamic Phasor Modeling of Various Multipulse Rectifiers and a VSI Fed by 18-Pulse Asymmetrical Autotransformer Rectifier Unit for Fast Transient Analysis. IEEE Access, 2020, 8, 43145-43155.	4.2	9
211	Cyber Spoofing Detection for Grid Distributed Synchrophasor Using Dynamic Dual-Kernel SVM. IEEE Transactions on Smart Grid, 2021, 12, 2732-2735.	9.0	9
212	Study of abnormal electrical phenomena effects on GSU transformers. IEEE Transactions on Power Delivery, 2003, 18, 835-842.	4.3	8
213	Wave-front arrival time analysis using wide-area frequency measurements. , 2009, , .		8
214	Dynamic performance test of single-phase phasor measurement units. , 2011, , .		8
215	Electromechanical Wave Green's Function Estimation from Ambient Electrical Grid Frequency Noise. , 2012, , .		8
216	Frequency response of the Eastern Interconnection due to increased wind generation. , 2014, , .		8

#	Article	IF	CITATIONS
217	FNET/GridEye for Future High Renewable Power Grids $\hat{a} \in \raiset applications$ Overview. , 2018, , .		8
218	Realâ€ŧime power management technique for microgrid with flexible boundaries. IET Generation, Transmission and Distribution, 2020, 14, 3161-3170.	2.5	8
219	Adaptive Subband Compression for Streaming of Continuous Point-on-Wave and PMU Data. IEEE Transactions on Power Systems, 2021, 36, 5612-5621.	6.5	8
220	Source Authentication of Distribution Synchrophasors for Cybersecurity of Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 4577-4580.	9.0	8
221	Fault-tolerant grid frequency measurement algorithm during transients. IET Energy Systems Integration, 2020, 2, 173-178.	1.8	8
222	Calculation of electric field and audible noise from transmission lines with non-parallel conductors. IEEE Transactions on Power Delivery, 1996, 11, 1492-1497.	4.3	7
223	Information model for power equipment diagnosis and maintenance. , 0, , .		7
224	FNET observations on the impact of super bowl xlii on the power grid frequency. , 2009, , .		7
225	Wide area synchronized measurements and inter-area oscillation study. , 2009, , .		7
226	Wide-area dynamic model validation using FNET measurements. , 2012, , .		7
227	Real-time power system electromechanical mode estimation implementation and visualization utilizing synchrophasor data. , 2016, , .		7
228	Definition of System Angle Reference for Distribution Level Synchronized Angle Measurement Applications. IEEE Transactions on Power Systems, 2019, 34, 818-820.	6.5	7
229	FNET/GridEye: A Tool for Situational Awareness of Large Power Interconnetion Grids. , 2020, , .		7
230	Power System Coherency Detection From Wide-Area Measurements by Typicality-Based Data Analysis. IEEE Transactions on Power Systems, 2022, 37, 388-401.	6.5	7
231	Simulation of the effects of SMES on FACTS performance. , 0, , .		6
232	Monitoring the North American interconnections at distribution level. , 2009, , .		6
233	Oscillation analysis in Western Interconnection using distribution-level phasor measurements. , 2011, , ,		6
234	Power grid disturbance analysis using frequency information at the distribution level. , 2014, , .		6

#	Article	IF	CITATIONS
235	Electrical field based wireless devices for contactless power gird phasor measurement. , 2014, , .		6
236	Primary Frequency Response Adequacy Study on the U.S. Eastern Interconnection Under High-Wind Penetration Conditions. IEEE Power and Energy Technology Systems Journal, 2015, 2, 125-134.	2.8	6
237	Data Architecture for the Next-Generation Power Grid: Concept, Framework, and Use Case. , 2015, , .		6
238	Identification of interarea modes from an effectual impulse response of ringdown frequency data. Electric Power Systems Research, 2017, 144, 96-106.	3.6	6
239	Exploiting Spatial Signatures of Power ENF Signal for Measurement Source Authentication. , 2018, , .		6
240	Recent application examples of FNET/GridEye. , 2018, , .		6
241	U.S. Eastern Interconnection (EI) Electromechanical Wave Propagation and the Impact of High PV Penetration on its Speed. , 2018, , .		6
242	Analytic Estimation Method of Forced Oscillation Amplitude Under Stochastic Continuous Disturbances. IEEE Transactions on Smart Grid, 2019, 10, 4026-4036.	9.0	6
243	Simulation of Fast-Rise Transients in a Large-Power Transformer Winding. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 478-488.	2.2	6
244	The impact of large-scale dynamic load modeling on frequency response in the U.S. Eastern Interconnection. International Journal of Electrical Power and Energy Systems, 2020, 120, 105983.	5.5	6
245	Pulsar Based Timing for Grid Synchronization. IEEE Transactions on Industry Applications, 2021, 57, 2067-2076.	4.9	6
246	Hierarchical control system for a flexible microgrid with dynamic boundary: design, implementation and testing. IET Smart Grid, 2019, 2, 669-676.	2.2	6
247	Pulsar-Calibrated Timing Source for Synchronized Sampling. IEEE Transactions on Smart Grid, 2022, 13, 1654-1657.	9.0	6
248	Off-line event filter for the wide area frequency measurements. , 2006, , .		5
249	Analysis of frequency extrema in the eastern and western interconnections. , 2011, , .		5
250	Measurement-based power system dynamic model for response estimation. , 2012, , .		5
251	Highly accurate frequency estimation for FNET. , 2013, , .		5
252	Investigation on Impacts of Alternative Generation Siting in Power Grids from the View of Complex Network Theory. Electric Power Components and Systems, 2016, 44, 820-831.	1.8	5

#	Article	IF	CITATIONS
253	Study of variability metrics for solar irradiance and photovoltaic output. , 2017, , .		5
254	Pulsar Based Alternative Timing Source for Grid Synchronization and Operation. IEEE Access, 2020, 8, 147818-147826.	4.2	5
255	Adding power of artificial intelligence to situational awareness of large interconnections dominated by inverterâ€based resources. High Voltage, 2021, 6, 924-937.	4.7	5
256	Information and Communication Infrastructures in Modern Wide-Area Systems. Power Systems, 2021, , 71-104.	0.5	5
257	Cyber-Attack Identification of Synchrophasor Data Via VMD and Multifusion SVM. IEEE Transactions on Industry Applications, 2022, 58, 1456-1465.	4.9	5
258	Data source authentication for wide-area synchrophasor measurements based on spatial signature extraction and quadratic kernel SVM. International Journal of Electrical Power and Energy Systems, 2022, 140, 108083.	5.5	5
259	Study of power transformer excitation under GIC. , 0, , .		4
260	A comparison of the dynamic performance of FACTS with energy storage to a unified power flow controller. , 0, , .		4
261	A tracing load flow program for total transfer capability calculations. , 0, , .		4
262	Damping inter-area oscillations by UPFCs based on selected global measurements. , 2008, , .		4
263	Detection, recognition, and localization of multiple attacks through event unmixing. , 2013, , .		4
264	Power grid frequency monitoring over mobile platforms. , 2014, , .		4
265	The Authentication of Digital Audio Recordings Using Power System Frequency. IEEE Potentials, 2014, 33, 39-42.	0.3	4
266	Eastern Interconnection model reduction based on phasor measurements. , 2014, , .		4
267	Developing dynamic models for the 2030 Eastern Interconnection grid. , 2014, , .		4
268	Variable-speed wind generation control for frequency regulation in the Eastern Interconnection (EI). , 2014, , .		4
269	Generator Outage Identification by Use of Electromechanical State-Space Model Analysis. IEEE Transactions on Power Systems, 2014, 29, 1831-1838.	6.5	4
270	Wide-area smart grids with new smart units synchronized measurement analysis and control based on cloud computing platform. International Journal of Energy Research, 2016, 40, 362-378.	4.5	4

#	Article	IF	CITATIONS
271	Dataâ€driven online distributed disturbance location for largeâ€scale power grids. IET Smart Grid, 2019, 2, 381-390.	2.2	4
272	PMU Holdover Performance Enhancement Using Double-Oven Controlled Oscillator. IEEE Transactions on Power Delivery, 2019, 34, 2260-2262.	4.3	4
273	Enhancing Distribution System Monitoring and Resiliency: A Sensor Placement Optimization Tool (SPOT). , 2019, , .		4
274	Model-less Source Location for Forced Oscillation based on Synchrophasor and Moving Fast Fourier Transformation. , 2020, , .		4
275	Dynamic Model Reduction for Large-Scale Power Systems Using Wide-Area Measurements. IEEE Access, 2020, 8, 97863-97872.	4.2	4
276	Planned Islanding Algorithm Design Based on Multiple Sub-Microgrids With Dynamic Boundary. IEEE Open Access Journal of Power and Energy, 2021, 8, 389-398.	3.4	4
277	Real-Time Lossless Compression for Ultrahigh-Density Synchrophasor and Point-on-Wave Data. IEEE Transactions on Industrial Electronics, 2022, 69, 2012-2021.	7.9	4
278	Multifractal Characterization of Distribution Synchrophasors for Cybersecurity Defense of Smart Grids. IEEE Transactions on Smart Grid, 2022, 13, 1658-1661.	9.0	4
279	Managing metadata over the WWW using eXtensible markup language (XML) [for electric power industry]. , 0, , .		3
280	Development of TVA SuperPDC: Phasor applications, tools, and event replay. , 2008, , .		3
281	Wide-Area mode visualization strategy based on FNET measurements. , 2009, , .		3
282	Wide-area measurements of three nOrth America interconnections at distribution level. , 2009, , .		3
283	A wavelet transform approach to adaptive extraction of partial discharge pulses from interferences. , 2009, , .		3
284	Impact of GPS signal quality on the performance of phasor measurements. , 2011, , .		3
285	Wide-area power system frequency measurement applications. , 2012, , .		3
286	Developing generic dynamic models for the 2030 Eastern Interconnection grid. , 2014, , .		3
287	Methods to establish input-output relationship for system identification-based models. , 2014, , .		3
288	Continously variable series reactor: Impacts on distance protection using CCVTs. , 2015, , .		3

#	Article	IF	CITATIONS
289	Observation and Applications of Electromechanical Wave Propagation Based on Wide-Area Synchronous Measurement. IFAC-PapersOnLine, 2017, 50, 73-78.	0.9	3
290	Distributed Energy Resource Overvoltage During Un-Intentional Islanding. , 2019, , .		3
291	Low cost, flexible, and distribution level universal grid analyser platform: designs and implementations. IET Generation, Transmission and Distribution, 2020, 14, 3945-3952.	2.5	3
292	Quantitative Evaluation of Reliability Improvement: Case Study on a Self-healing Distribution System. , 2020, , .		3
293	Study on the Power-Frequency Waves Distribution Characteristics for Half-Wavelength Transmission Lines Based on the Frequency-Length Factor. Mathematical Problems in Engineering, 2020, 2020, 1-14.	1.1	3
294	Precise Timing Based on Pulsar Observation for Grid Synchronization. , 2021, , .		3
295	Alignment Method for Synchronized Phase Angle Measurement With Presence of Practical Time Shift. IEEE Transactions on Power Delivery, 2021, 36, 2234-2237.	4.3	3
296	Time Delay of Wide Area Damping Control in Urban Power Grid: Model-Based Analysis and Data-Driven Compensation. Frontiers in Energy Research, 2022, 10, .	2.3	3
297	Adaptive hybrid ARQ in wireless ATM networks. , 0, , .		2
298	LAN-based load shedding controller (LSC) for the oil refinery facility. , 0, , .		2
299	Coordination of UFLS and UFGC by Application of D-SMES. , 0, , .		2
300	Magnetic field based Phasor Measurement Unit for power grid frequency monitoring. , 2010, , .		2
301	Structure and Applications of a Novel WAMS. Procedia Engineering, 2011, 15, 4492-4498.	1.2	2
302	Analysis of frequency extrema in the Eastern and Western Interconnections, 2010–2011. , 2012, , .		2
303	A Phase Locked Loop-based approach to real-time modal analysis on synchrophasor measurements. , 2014, , .		2
304	Transient stability analysis with phase plane of high-order derivatives of angle dynamics. , 2014, , .		2
305	Oscillation damping contributions of variable-speed wind generators in the Eastern Interconnection (EI). , 2014, , .		2
306	Design of a large-scale virtual power grid for research community. , 2015, , .		2

#	Article	IF	CITATIONS
307	Comparison of MIMO system identification methods for electromechanical oscillation damping estimation. , 2016, , .		2
308	A simulation-based linearity study of large-scale power systems. , 2016, , .		2
309	An Economic Criterion for Distributed Renewable Generation Planning. Electric Power Components and Systems, 2017, 45, 1298-1304.	1.8	2
310	Understanding the effect of non-uniform ageing on dielectric response of transformer insulation. , 2017, , .		2
311	Utilization of chip-scale atomic clock for synchrophasor measurements. , 2017, , .		2
312	Twoâ€stage EMS for distribution network under defensive islanding. IET Generation, Transmission and Distribution, 2019, 13, 4073-4080.	2.5	2
313	Correlation between Generator Trips and Locational Marginal Prices (LMPs). , 2020, , .		2
314	Wide-area monitoring and anomaly analysis based on synchrophasor measurement. , 2021, , 143-161.		2
315	Deep Learning-Based Adaptive Remedial Action Scheme with Security Margin for Renewable-Dominated Power Grids. Energies, 2021, 14, 6563.	3.1	2
316	Pulsar Based Timing for Grid Synchronization. , 2020, , .		2
317	Cyber-Attack Identification of Synchrophasor Data Via VMD and Multi-fusion SVM. , 2020, , .		2
318	PLC-based Impedance Measurement and Current Injection Response Analysis. , 2021, , .		2
319	Students grasp complex concepts through animation [power engineering education]. IEEE Computer Applications in Power, 1998, 11, 31-36.	0.2	1
320	Mitigation of EAF Induced Problems. , 2006, , .		1
321	Power transformer DGA data processing and alarming tool for on-line monitors. , 2009, , .		1
322	Impact of GPS signal quality on the performance of phasor measurements. , 2011, , .		1
323	Mathematical model of influence of oxygen and moisture on feature concentration ratios of SF <inf>6</inf> Decomposition Products. , 2012, , .		1
324	Are We Prepared for the Next Solar Storm? [About This Issue]. IEEE Electrification Magazine, 2015, 3, 2-3.	1.8	1

#	Article	IF	CITATIONS
325	A GPS-free power grid monitoring system over mobile platforms. , 2015, , .		1
326	Adaptive and coordinated oscillation damping control using measurement-driven approach. , 2016, , .		1
327	Multivariate empirical mode decomposition based signal analysis and efficient-storage in smart grid. , 2016, , .		1
328	Contribution of Variable-Speed Wind Generators to Frequency Regulation and Oscillation Damping in the United States Eastern Interconnection. Green Energy and Technology, 2014, , 169-188.	0.6	1
329	SynchroService: An SaaS Infrastructure to Increase the Availability of Synchrophasor Systems. , 2020, ,		1
330	Analog Front-end: Circuit of Pulsar-based Timing Synchronization for WAMS. , 2021, , .		1
331	Analog Front-End: Circuit of Pulsar-Based Timing Synchronization for the WAMS. IEEE Transactions on Industry Applications, 2022, 58, 1622-1631.	4.9	1
332	Electron ionization, attachment and detachment coefficients in SF/sub 6/ and Xe gas mixtures. , 0, , .		0
333	The clustering rule based data mining fault diagnosis in internet based Virtual Hospital for power equipment. , 0, , .		Ο
334	Island grid modeling and validation using single phase phasor measurement data. , 2011, , .		0
335	Power grid frequency data conditioning using robust statistics and B-spline functions. , 2012, , .		0
336	Synchronized Phasor Measurement in Smart Grid Situational Awareness. Power Systems, 2012, , 565-591.	0.5	0
337	Real-time Frequency Response Reserve based on System Inertia. , 2020, , .		0
338	Online Tuning of Dynamic Equivalents for Large-Scale Power Systems Using Wide-area Measurements. , 2021, , .		0
339	Impact of Self-healing Control on Reliability Evaluation in Distribution System with Microgrid. , 2021, ,		Ο
340	Forced Oscillation Grid Vulnerability Analysis and Mitigation Using Inverter-Based Resources: Texas Grid Case Study. Energies, 2022, 15, 2819.	3.1	0
341	Disturbance Magnitude Estimation: MLP-based Fusion Approach for Bulk Power Systems. , 2022, , .		0
342	Effects-Based Monitoring of Geomagnetically-Induced Current Using a Convolutional Neural Network. IEEE Transactions on Power Delivery, 2023, 38, 85-94.	4.3	0

#	Article	IF	CITATIONS
343	An Experiment-based Distribution Level Performance Comparison among PMUs. , 2022, , .		0
344	Non-Gaussianity in Frequency Distribution: FNET/GridEye's Observation of Worldwide Grids. , 2022, , .		0
345	Dynamic Performance Comparison and Prediction based on Distribution-level Phasor Measurement Units. , 2022, , .		0