

Yi Cui

List of Publications by Year in descending order

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64
times ranked

792
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifractal Characterization of Distribution Synchrophasors for Cybersecurity Defense of Smart Grids. IEEE Transactions on Smart Grid, 2022, 13, 1658-1661.	9.0	4
2	Realizing multifractality of smart meter data for household characteristic prediction. International Journal of Electrical Power and Energy Systems, 2022, 139, 108003.	5.5	15
3	Authenticating source information of distribution synchrophasors at intra-state locations for cyber-physical resilient power networks. International Journal of Electrical Power and Energy Systems, 2022, 139, 108009.	5.5	5
4	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
5	Experimental Studies on the Estimated Life of Oil-Immersed Insulation Paper in Traction Transformers. IEEE Transactions on Power Delivery, 2021, 36, 2646-2657.	4.3	2
6	Extraction of Dynamic Frequency Response Characteristics and Modelling of Modern Air Conditioners. IEEE Transactions on Smart Grid, 2021, 12, 897-900.	9.0	5
7	A Method for Diagnosing the State of Insulation Paper in Traction Transformer Based on FDS Test and CS-DQ Algorithm. IEEE Transactions on Transportation Electrification, 2021, 7, 91-103.	7.8	13
8	A High-Precision Diagnosis Method for Damp Status of OIP Bushing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	8
9	An Adaptive PV Frequency Control Strategy Based on Real-Time Inertia Estimation. IEEE Transactions on Smart Grid, 2021, 12, 2355-2364.	9.0	45
10	Source Authentication of Distribution Synchrophasors for Cybersecurity of Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 4577-4580.	9.0	8
11	Nonintrusive Inspection of Moisture Damp in Compositated Insulation Structure Based on Terahertz Technology. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	22
12	Adding power of artificial intelligence to situational awareness of large interconnections dominated by inverter-based resources. High Voltage, 2021, 6, 924-937.	4.7	5
13	A New Testing Method for the Dielectric Response of Oil-Immersed Transformer. IEEE Transactions on Industrial Electronics, 2020, 67, 10833-10843.	7.9	35
14	FNET/GridEye: A Tool for Situational Awareness of Large Power Interconnection Grids. , 2020, , .		7
15	A Diagnostic Method for Moisture Intrusion Fault in OIP Bushing. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7072-7081.	4.7	15
16	Ambient Synchrophasor Measurement Based System Inertia Estimation. , 2020, , .		13
17	A Review on Artificial Intelligence for Grid Stability Assessment. , 2020, , .		28
18	Statistical Characterization of Solar Irradiance Variability and Its Effect on Step Voltage Regulators. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
19	Spatio-Temporal Synchrophasor Data Characterization for Mitigating False Data Injection in Smart Grids. , 2019, , .		11
20	Hypothesis of Interfacial Charge Transportation in Oil-Paper Insulation for Transformer Moisture Estimation. , 2019, , .		1
21	Spatio-Temporal Characterization of Synchrophasor Data Against Spoofing Attacks in Smart Grids. IEEE Transactions on Smart Grid, 2019, 10, 5807-5818.	9.0	31
22	A Measurement Source Authentication Methodology for Power System Cyber Security Enhancement. IEEE Transactions on Smart Grid, 2018, 9, 3914-3916.	9.0	26
23	Exploiting Spatial Signatures of Power ENF Signal for Measurement Source Authentication. , 2018, , .		6
24	Oil exponent thermal modelling for traction transformer under multiple overloads. IET Generation, Transmission and Distribution, 2018, 12, 5982-5989.	2.5	14
25	FNET/GridEye for Future High Renewable Power Grids “ Applications Overview. , 2018, , .		8
26	Effects of thermal aging on moisture equilibrium in oil-paper insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2340-2348.	2.9	15
27	Recent application examples of FNET/GridEye. , 2018, , .		6
28	Effects of thermal aging on moisture diffusion in insulation paper immersed with mineral oil. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1888-1896.	2.9	27
29	A Distribution Level Wide Area Monitoring System for the Electric Power Grid“FNET/GridEye. IEEE Access, 2017, 5, 2329-2338.	4.2	71
30	Source Location Identification of Distribution-Level Electric Network Frequency Signals at Multiple Geographic Scales. IEEE Access, 2017, 5, 11166-11175.	4.2	49
31	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
32	GPS signal loss in the wide area monitoring system: Prevalence, impact, and solution. Electric Power Systems Research, 2017, 147, 254-262.	3.6	28
33	Numerical and experimental validation of variation of power transformers“™ thermal time constants with load factor. Applied Thermal Engineering, 2017, 126, 939-948.	6.0	33
34	Study of variability metrics for solar irradiance and photovoltaic output. , 2017, , .		5
35	Understanding the effect of non-uniform ageing on dielectric response of transformer insulation. , 2017, , .		2
36	PDTools: A toolbox of partial discharge (PD) signal analysis for transformer condition assessment. , 2017, , .		0

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37	Inter-area oscillation statistical analysis of the U.S. Eastern interconnection. Journal of Engineering, 2017, 2017, 595-605.	1.1	10
38	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
39	Statistical analysis of the FNET/grideye-detected inter-area oscillations in Eastern Interconnection (EI). , 2017, , .		6
40	Particle tracing modelling on moisture dynamics of oil-impregnated transformer. IET Science, Measurement and Technology, 2016, 10, 335-343.	1.6	7
41	Multi-source information fusion for power transformer condition assessment. , 2016, , .		4
42	Moisture-Dependent Thermal Modelling of Power Transformer. IEEE Transactions on Power Delivery, 2016, 31, 2140-2150.	4.3	51
43	Multi-physics modelling approach for investigation of moisture dynamics in power transformers. IET Generation, Transmission and Distribution, 2016, 10, 1993-2001.	2.5	16
44	Evolutionary Bayesian fusion for transformers fault detection. , 2016, , .		2
45	Time domain diffusion-driven dielectric response model for investigation of moisture dynamics in transformers insulation. , 2015, , .		1
46	Transformer hot spot temperature prediction using a hybrid algorithm of support vector regression and information granulation. , 2015, , .		4
47	Understanding Moisture Dynamics and Its Effect on the Dielectric Response of Transformer Insulation. IEEE Transactions on Power Delivery, 2015, 30, 2195-2204.	4.3	23
48	Multi-variable approach for evaluating transformer paper insulation. , 2015, , .		1
49	Pattern recognition techniques for power transformer insulation diagnosis-a comparative study part 1: framework, literature, and illustration. International Transactions on Electrical Energy Systems, 2015, 25, 2247-2259.	1.9	11
50	Pattern recognition techniques for power transformer insulation diagnosis-a comparative study part 2: implementation, case study, and statistical analysis. International Transactions on Electrical Energy Systems, 2015, 25, 2260-2274.	1.9	6
51	An Updated Model to Determine the Life Remaining of Transformer Insulation. IEEE Transactions on Power Delivery, 2015, 30, 395-402.	4.3	82
52	A diffusion-driven model for investigating moisture effects on dielectric response measurement of transformer insulation. , 2014, , .		0
53	Improvement of power transformer insulation diagnosis using oil characteristics data preprocessed by SMOTEBoost technique. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 2363-2373.	2.9	39
54	Investigation of feature selection techniques for improving efficiency of power transformer condition assessment. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 836-844.	2.9	33

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55	Finite element method modeled dielectric response for condition evaluation of transformer insulation. , 2013, , .		3
56	Power transformer condition assessment using support vector machine with heuristic optimization. , 2013, , .		4
57	Experimental study of electrical characteristics on pantograph arcing. , 2011, , .		10
58	Life models of polyimide film under combined thermal and electrical stresses used in inverter-fed traction motor. , 2011, , .		3
59	Simulation system of pantograph arcing. , 2011, , .		2
60	Study on Characterization of Electrical Contact between Pantograph and Catenary. , 2011, , .		13
61	Possible mechanism of electrical treeing and breakdown for polyimide nanocomposite film used in inverter-fed motor. , 2010, , .		3
62	Multifactor Stress Life Model of Polyimide Film Used in Inverter-Fed Traction Motors. Applied Mechanics and Materials, 0, 121-126, 239-243.	0.2	0
63	Electrical Treeing Breakdown Properties for Polyimide Nanocomposite Film in Inverter-Fed Motors. Advanced Materials Research, 0, 455-456, 553-558.	0.3	0
64	Finite Element Analysis of Temperature Field of Traction Motor. Applied Mechanics and Materials, 0, 189, 461-464.	0.2	0