Xiucheng Jiang

List of Publications by Year
in descending order

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139 papers	1,921 citations	279701 23 h-index	315616 38 g-index
139 all docs	139 docs citations	139 times ranked	1546 citing authors

#	Article	IF	Citations
1	Active Pose Relocalization for Intelligent Substation Inspection Robot. IEEE Transactions on Industrial Electronics, 2023, 70, 4972-4982.	5.2	3
2	Severity Evaluation of UHF Signals of Partial Discharge in GIS Based on Semantic Analysis. IEEE Transactions on Power Delivery, 2022, 37, 1456-1464.	2.9	9
3	Multiscale Fusion Simulation of the Influence of Temperature on the Partial Discharge Signal of GIS Insulation Void Defects. IEEE Transactions on Power Delivery, 2022, 37, 1304-1314.	2.9	10
4	Experimental research on the influence of temperature on the discharge signal of void defects in GIS. High Voltage, 2022, 7, 314-324.	2.7	4
5	Detecting and Classifying Multiple Class Events in a Power Distribution System Based on an Eigenvalue Fluctuation Model. IEEE Transactions on Power Delivery, 2022, 37, 2717-2727.	2.9	0
6	RSSPN:Robust Semi-Supervised Prototypical Network for Fault Root Cause Classification in Power Distribution Systems. IEEE Transactions on Power Delivery, 2022, 37, 3282-3290.	2.9	2
7	Knowledge-Driven Recognition Methodology of Partial Discharge Patterns in GIS. IEEE Transactions on Power Delivery, 2022, 37, 3335-3344.	2.9	10
8	Influence of Protrusion Tip Size on Current Pulse Characteristics of Negative Corona Discharge Based on Numerical Simulation. IEEE Transactions on Power Delivery, 2022, 37, 3792-3802.	2.9	4
9	Application of a Partial Discharge Diagnosis Method Based on the Novel Multispectral Array Sensor and GMM in Different Insulating Gases. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	2
10	Optical Characteristics and Fault Diagnosis of Partial Discharge in C₄F₇N/CO₂ Gas Mixture and SF₆ Based on Novel Multispectral Microarray Detection. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1079-1086.	1.8	2
11	Partial Discharge Behavior of Typical Defects in Power Equipment Under Multilevel Staircase Voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1563-1573.	1.8	1
12	Optical Detection Method for Partial Discharge of Printed Circuit Boards in Electrified Aircraft Under Various Pressures and Voltages. IEEE Transactions on Transportation Electrification, 2022, 8, 4668-4677.	5.3	3
13	Dynamic Topology Awareness and Localization for Power Distribution Networks Considering Non-Gaussian Noise. IEEE Transactions on Power Delivery, 2021, 36, 2343-2353.	2.9	1
14	Predicting Weather-Related Failure Risk in Distribution Systems Using Bayesian Neural Network. IEEE Transactions on Smart Grid, 2021, 12, 350-360.	6.2	30
15	A RSSI-AOA-Based UHF Partial Discharge Localization Method Using MUSIC Algorithm. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	13
16	A Novel Optical Localization Method for Partial Discharge Source Using ANFIS Virtual Sensors and Simulation Fingerprint in GIL. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	17
17	Dynamic Topology Awareness in Active Distribution Networks Using Blockchain-Based State Estimations. IEEE Transactions on Power Systems, 2021, 36, 5185-5197.	4.6	7
18	Accurate partial discharge localisation using a multiâ€deep neural network model trained with a novel virtual measurement method. IET Science, Measurement and Technology, 2021, 15, 352.	0.9	1

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19	A novel partial discharge localization method for GIL based on the 3D optical signal irradiance fingerprint and baggingâ€KELM. IET Generation, Transmission and Distribution, 2021, 15, 2240-2249.	1.4	4
20	Method of GIL partial discharge localization based on natural neighbour interpolation and ECOCâ€MLPâ€SVM using optical simulation technology. High Voltage, 2021, 6, 514-524.	2.7	14
21	An adaptive fault diagnosis method of power transformers based on combining oversampling and costâ€sensitive learning. IET Smart Grid, 2021, 4, 623-635.	1.5	3
22	Application of multiâ€source information fusion based on Dâ€S evidence theory in insulation defect identification of DC XLPE cable. High Voltage, 2021, 6, 599-607.	2.7	3
23	A Contour Angle Orientation for Power Equipment Infrared and Visible Image Registration. IEEE Transactions on Power Delivery, 2021, 36, 2559-2569.	2.9	33
24	Dynamic Topology Awareness in Active Distribution Networks Under DG Uncertainties Using GMM-PSEs and KL Divergence. IEEE Transactions on Sustainable Energy, 2021, 12, 2086-2096.	5.9	5
25	Object recognition for power equipment via humanâ€level concept learning. IET Generation, Transmission and Distribution, 2021, 15, 1578-1587.	1.4	8
26	Application status and development trends for intelligent perception of distribution network. High Voltage, 2021, 6, 938-954.	2.7	19
27	An Identification Method for Asymmetric Faults With Line Breaks Based on Low-Voltage Side Data in Distribution Networks. IEEE Transactions on Power Delivery, 2021, 36, 3629-3639.	2.9	14
28	An array virtual extension method for power equipment acoustic emission direction of arrival estimation based on highâ€order cumulants. High Voltage, 2021, 6, 95-105.	2.7	1
29	Power Distribution Network Dynamic Topology Awareness and Localization Based on Subspace Perturbation Model. IEEE Transactions on Power Systems, 2020, 35, 1479-1488.	4.6	20
30	Root-Cause Identification of Single Line-to-Ground Fault in Urban Small Current Grounding Systems Based on Correlation Dimension and Average Resistance. IEEE Transactions on Power Delivery, 2020, 35, 1834-1843.	2.9	13
31	Pattern Recognition of DC Partial Discharge on XLPE Cable Based on ADAM-DBN. Energies, 2020, 13, 4566.	1.6	7
32	A Fault Diagnosis Method of Power Transformer Based on Cost Sensitive One-Dimensional Convolution Neural Network. , 2020, , .		8
33	Research on Partial Discharge Signal Detection Based on UHF Sensor Array and Eigenvalue Behavior Analysis. , 2020, , .		0
34	Computation and Analysis of Distribution System Resilience based on Elastic Network Modeling. , 2020, , .		2
35	Partial Discharge Pattern Recognition Based on 3D Graphs of Phase Resolved Pulse Sequence. Energies, 2020, 13, 4103.	1.6	12
36	Partial Discharge Localization in 3-D With a Multi-DNN Model Based on a Virtual Measurement Method. IEEE Access, 2020, 8, 87434-87445.	2.6	8

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37	Incipient Fault Identification in Power Distribution Systems via Human-Level Concept Learning. IEEE Transactions on Smart Grid, 2020, 11, 5239-5248.	6.2	36
38	Fault early warning in airâ€insulated substations by RSSIâ€based angle of arrival estimation and monopole UHF wireless sensor array. IET Generation, Transmission and Distribution, 2020, 14, 2345-2351.	1.4	8
39	A Method for Separating Multisource Partial Discharges in a Substation Based on Selected Bispectra of UHF Signals. Applied Sciences (Switzerland), 2020, 10, 3751.	1.3	3
40	A Classification System for Insulation Defect Identification of Gas-Insulated Switchgear (GIS), Based on Voiceprint Recognition Technology. Applied Sciences (Switzerland), 2020, 10, 3995.	1.3	8
41	Research on Time-Domain Transfer Impedance Measurement Technology for High Frequency Current Transformers in Partial Discharge Detection of Cables. Journal of Shanghai Jiaotong University (Science), 2020, 25, 10-17.	0.5	3
42	Intelligent learning approach for UHF partial discharge localisation in airâ€insulated substations. High Voltage, 2020, 5, 583-590.	2.7	15
43	Application of random matrix model in multiple abnormal sources detection and location based on PMU monitoring data in distribution network. IET Generation, Transmission and Distribution, 2020, 14, 6476-6483.	1.4	3
44	Partial discharge directionâ€ofâ€arrival estimation in airâ€insulated substation by UHF wireless array and RSSI maximum likelihood estimator. IET Generation, Transmission and Distribution, 2020, 14, 5491-5497.	1.4	3
45	Research on Cooperative Optimal Dispatching Strategy of PV-Storage-Charging-Swapping Integrated Station Based on Particle Swarm Optimization. , 2020, , .		1
46	Energy Optimization Management Model of Regional Integrated Energy System with Large-Scale Charging Piles Based on Improved ICA. , 2020, , .		0
47	An Optical Partial Discharge Localization Method Based on Simulation and Machine learning in GIL. , 2020, , .		2
48	Penetrating power characteristics of half-wavelength AC transmission in point-to-grid system. Journal of Modern Power Systems and Clean Energy, 2019, 7, 123-130.	3.3	5
49	High Accuracy Insulation Fault Diagnosis Method of Power Equipment Based on Power Maximum Likelihood Estimation. IEEE Transactions on Power Delivery, 2019, 34, 1291-1299.	2.9	16
50	Single Line-to-Ground Faulted Line Detection of Distribution Systems With Resonant Grounding Based on Feature Fusion Framework. IEEE Transactions on Power Delivery, 2019, 34, 1766-1775.	2.9	52
51	Faultâ€cause identification method based on adaptive deep belief network and timeâ€“frequency characteristics of travelling wave. IET Generation, Transmission and Distribution, 2019, 13, 724-732.	1.4	33
52	A prediction method for power transformer state parameters based on feature attention mechanism. , 2019, , .		0
53	RSSI-Power-Based Direction of Arrival Estimation of Partial Discharges in Substations. Energies, 2019, 12, 3450.	1.6	4
54	Research on the Power Output Characteristics of a Coupling Transformer in D-FACTS. Energies, 2019, 12, 4709.	1.6	2

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55	Study on partial discharge characteristics of C₄F₇N/CO₂ gas mixture GIL based on the integrated optical-UHF detection. , 2019, , .		0
56	A Substation UHF Partial Discharge Detection Method Based on Maximum Likelihood Estimation. , 2019, , .		1
57	A Novel Partial Discharge Detection Method Based on the Photoelectric Fusion Pattern in GIL. Energies, 2019, 12, 4120.	1.6	4
58	Research on Distribution Network Fault Recognition Method Based on Time-Frequency Characteristics of Fault Waveforms. IEEE Access, 2018, 6, 7291-7300.	2.6	37
59	UHF partial discharge localisation method in substation based on dimensionâ€reduced RSSI fingerprint. IET Generation, Transmission and Distribution, 2018, 12, 398-405.	1.4	37
60	GIS partial discharge pattern recognition via deep convolutional neural network under complex data source. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 678-685.	1.8	108
61	Application of EEMD and highâ€order singular spectral entropy to feature extraction of partial discharge signals. IEEJ Transactions on Electrical and Electronic Engineering, 2018, 13, 1002-1010.	0.8	7
62	Inversion method to reconstruct fault transient traveling wave on overhead transmission lines. International Transactions on Electrical Energy Systems, 2018, 28, e2546.	1.2	3
63	Big Data Modeling and Analysis for Power Transmission Equipment: A Novel Random Matrix Theoretical Approach. IEEE Access, 2018, 6, 7148-7156.	2.6	26
64	Classification of partial discharge images within DC XLPE cables in contourlet domain. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 486-493.	1.8	12
65	DC cable feature extraction based on the PD image in the non-subsampled contourlet transform domain. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 533-540.	1.8	16
66	UHF partial discharge localization algorithm based on compressed sensing. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 21-29.	1.8	28
67	A Novel Association Rule Mining Method of Big Data for Power Transformers State Parameters Based on Probabilistic Graph Model. IEEE Transactions on Smart Grid, 2018, 9, 695-702.	6.2	60
68	Prediction of Dissolved Gas Concentrations in Transformer Oil Based on the KPCA-FFOA-GRNN Model. Energies, 2018, 11, 225.	1.6	24
69	A Simulation Study on Optical Signal Propagation Characteristics of Partial Discharge in Single-core and Three-cores GIL. , 2018, , .		1
70	Simulation Study and Detection Position Analysis on Position of Partial Discharge Detection in XLPE Cable Cross-bonding System. , 2018, , .		7
71	An Intelligent Transformer Warning Model based on Data-driven Bagging Decision Tree. , 2018, , .		1
72	Pattern Recognition of Partial Discharge Image Based on One-dimensional Convolutional Neural Network. , 2018, , .		30

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73	Infrared and Visible Image Fusion of Electric Equipment Using FDST and DC-PCNN. , 2018, , .		2
74	Methodology for Obtaining Key Transient Information of Unsymmetrical Earth Fault in Overhead Transmission Line. , 2018, , .		0
75	Research on leakage current analysis of DC cable based on wavelet packet multi - scale decomposition. , 2018, , .		0
76	Simulation on Propagation Characteristics of Optical Signals of Partial Discharge in Single-core and Three-cores GIL. , 2018, , .		0
77	Online Monitoring Data Cleaning of Transformer Considering Time Series Correlation. , 2018, , .		8
78	Influence of the Voltage Level on the Propagation Characteristics of Optical Signals Gener-ated by GIL Partial Discharge. , 2018, , .		0
79	Fault diagnosis of transformer based on KPCA and Elman neural network. , 2018, , .		4
80	Prediction system for dynamic transmission line load capacity based on PCA and online sequential extreme learning machine. , 2018, , .		1
81	Prediction Method for Power Transformer Running State Based on LSTM_DBN Network. Energies, 2018, 11, 1880.	1.6	28
82	Power Transformer Operating State Prediction Method Based on an LSTM Network. Energies, 2018, 11, 914.	1.6	25
83	Studies on electric field distribution and partial discharges of XLPE cable at DC voltage. , 2018, , .		5
84	Systemâ€level dynamic phasor models of hybrid AC/DC microgrids suitable for realâ€time simulation and small signal analysis. IET Generation, Transmission and Distribution, 2018, 12, 3607-3617.	1.4	6
85	Direction of arrival estimation method for multiple UHF partial discharge sources based on virtual array extension. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1526-1534.	1.8	16
86	Simulation analysis on the propagation of the optical partial discharge signal in I-shaped and L-shaped GILs. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1421-1428.	1.8	12
87	LSTM networks for the trend prediction of gases dissolved in power transformer insulation oil. , 2018, , .		12
88	A time-domain characterization method for UHF partial discharge sensors. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 110-119.	1.8	7
89	Partial Discharge Detection and Recognition in Random Matrix Theory Paradigm. IEEE Access, 2017, 5, 8205-8213.	2.6	22
90	Probabilistic small signal stability analysis with large scale integration of wind power considering dependence. Renewable and Sustainable Energy Reviews, 2017, 69, 1258-1270.	8.2	14

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91	Partial discharge and noise separation in combined cableâ€"OHLs based on threeâ€phase power ratios. IET Generation, Transmission and Distribution, 2017, 11, 2740-2751.	1.4	2
92	Modal analysis of three-phase cable systems based on a modified high-frequency model. , 2017, , .		0
93	Reproduction Methodology for Single Phase-to-Ground Faults in Overhead Transmission Lines. IEEE Access, 2017, 5, 17403-17413.	2.6	10
94	Dissolved gas analysis of insulating oil for power transformer fault diagnosis with deep belief network. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2828-2835.	1.8	168
95	Insulating property of polypropylene nanocomposites filled with nano-MgO of different concentration. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1430-1437.	1.8	59
96	Cleaning Method for Status Monitoring Data of Power Equipment Based on Stacked Denoising Autoencoders. IEEE Access, 2017, 5, 22863-22870.	2.6	46
97	Effects of inorganic fillers on withstanding short-time breakdown and long-time electrical aging of epoxy composites. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, S10-S15.	0.8	11
98	Partial discharge pattern recognition of XLPE cables at DC voltage based on the compressed sensing theory. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2977-2985.	1.8	20
99	Micro-PMU for distribution power lines. CIRED - Open Access Proceedings Journal, 2017, 2017, 333-337.	0.1	11
100	Error correction method based on multiple neural networks for UHF partial discharge localization. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3730-3738.	1.8	10
101	Image registration between visible and infrared images for electrical equipment inspection robots based on quadrilateral features. , 2017, , .		5
102	Affinely adjustable robust optimal dispatch for island microgrids with wind power, energy storage and diesel generators. , 2017, , .		4
103	A Novel Partial Discharge Localization Method in Substation Based on a Wireless UHF Sensor Array. Sensors, 2017, 17, 1909.	2.1	19
104	A Novel Transient Fault Current Sensor Based on the PCB Rogowski Coil for Overhead Transmission Lines. Sensors, 2016, 16, 742.	2.1	26
105	Experimental study on space charge and electrical strength of MgO nano-particles/polypropylene composite. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1812-1819.	1.8	21
106	Partial discharge feature extraction through contourlet transform for XLPE cable defect models classification. , 2016, , .		1
107	A novel high-density power energy harvesting methodology for transmission line online monitoring devices. Review of Scientific Instruments, 2016, 87, 075119.	0.6	18
108	Framework of Random Matrix Theory for Power System Data Mining in a Non-Gaussian Environment. IEEE Access, 2016, 4, 9969-9977.	2.6	16

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109	Energy Estimation of Partial Discharge Pulse Signals Based on Noise Parameters. IEEE Access, 2016, 4, 10270-10279.	2.6	19
110	Probabilistic load flow calculation using cumulants and multiple integrals. IET Generation, Transmission and Distribution, 2016, 10, 1703-1709.	1.4	32
111	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.	2.6	20
112	Study on space charge and electrical conductivity of polypropylene insulation material. , 2015, , .		2
113	A Novel Algorithm for Separating Multiple PD Sources in a Substation Based on Spectrum Reconstruction of UHF Signals. IEEE Transactions on Power Delivery, 2015, 30, 809-817.	2.9	26
114	A Versatile Probability Model of Photovoltaic Generation Using Pair Copula Construction. IEEE Transactions on Sustainable Energy, 2015, 6, 1337-1345.	5.9	70
115	A new standingâ€wave testing system for bridge structure nondestructive damage detection using electromagnetic wave. IEEJ Transactions on Electrical and Electronic Engineering, 2015, 10, 157-165.	0.8	4
116	Localization Algorithm for the PD Source in Substation Based on L-Shaped Antenna Array Signal Processing. IEEE Transactions on Power Delivery, 2015, 30, 472-479.	2.9	45
117	A method for fast mining abnormal state information of power equipment based on time series analysis. , 2014, , .		2
118	Robust Time Delay Estimation Method for Locating UHF Signals of Partial Discharge in Substation. IEEE Transactions on Power Delivery, 2013, 28, 1960-1968.	2.9	113
119	Robustness analysis on electric vehicle energy distribution networks. , 2013, , .		1
120	Configure Methodology of Onboard Supercapacitor Array for Recycling Regenerative Braking Energy of URT Vehicles. IEEE Transactions on Industry Applications, 2013, 49, 1678-1686.	3.3	38
121	Energy scheduling and allocation in electric vehicle energy distribution networks. , 2013, , .		3
122	On-line monitoring system for icing state of overhead transmission line. , 2012, , .		2
123	MOA Resistive Current Measure System Based on GPS and Wireless Technology. , 2012, , .		1
124	Information Modeling and SCL Description of IED for Transformer Condition Monitoring Based on IEC61850. , 2012, , .		0
125	Location Algorithm for Partial Discharge Based on Radio Frequency (RF) Antenna Array. , 2012, , .		6
126	Research on Auto-Tracking Algorithm for Power Line Inspection Based on Unmanned Aerial Vehicle. , 2012, , .		9

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127	Study on new method for distributed fault location of overhead transmission line. , 2011, , .		1
128	Risk assessment of transmission dynamic line rating based on Monte Carlo. , 2011, , .		8
129	Application of adaptive neuro fuzzy inference system to the partial discharge pattern recognition. , 2009, , .		2
130	Secondary voltage regulation based on wide area network. , 2009, , .		7
131	Study on the trap distribution in polyimide thin film based on TSDC method. , 2009, , .		1
132	Intelligent morphological filter applied to the signal processing of partial discharge for XLPE cable. , 2009, , .		1
133	Investigation of PD electromagnetic wave characteristics in GIS. , 2008, , .		2
134	Application of independent component analysis on state inspection for transmission lines. , 2008, , .		0
135	Dielectric Properties and Coulomb Blockade Effect in Nano-Ag/Silicone Resin Modified Polyester Composite. IEEJ Transactions on Fundamentals and Materials, 2006, 126, 1148-1152.	0.2	2
136	Low Frequency Polarization Behavior of Nano-Ag/Low-density Polyethylene Composite. , 2006, , .		3
137	Dielectric characteristics of nano-Ag/SP composite. , 2005, , .		1
138	Dielectric characteristics of ultra-pure SP adulterated with PANI. , 2005, , .		0
139	A novel imageâ€orientation feature extraction method for partial discharges. IET Generation, Transmission and Distribution, 0, , .	1.4	2