

# Xiucheng Jiang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108  
papers

1,079  
citations

16  
h-index

28  
g-index

139  
ext. papers

1,565  
ext. citations

3.6  
avg, IF

4.93  
L-index

#	Paper	IF	Citations
108	Application of a Partial Discharge Diagnosis Method Based on the Novel Multispectral Array Sensor and GMM in Different Insulating Gases. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-11	5.2	
107	Optical Characteristics and Fault Diagnosis of Partial Discharge in C4F7N/CO2 Gas mixture and SF6 Based on Novel Multispectral Microarray Detection. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	0
106	An array virtual extension method for power equipment acoustic emission direction of arrival estimation based on high-order cumulants. <i>High Voltage</i> , <b>2021</b> , 6, 95-105	4.1	
105	RSSPN: Robust Semi-Supervised Prototypical Network for Fault Root Cause Classification in Power Distribution Systems. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	
104	Knowledge-Driven Recognition Methodology of Partial Discharge Patterns in GIS. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	3
103	Influence of Protrusion Tip Size on Current Pulse Characteristics of Negative Corona Discharge Based on Numerical Simulation. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	1
102	Method of GIL partial discharge localization based on natural neighbour interpolation and ECOC-MLP-SVM using optical simulation technology. <i>High Voltage</i> , <b>2021</b> , 6, 514-524	4.1	6
101	Application of multi-source information fusion based on D-S evidence theory in insulation defect identification of DC XLPE cable. <i>High Voltage</i> , <b>2021</b> , 6, 599-607	4.1	2
100	Dynamic Topology Awareness and Localization for Power Distribution Networks Considering Non-Gaussian Noise. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 36, 2343-2353	4.3	1
99	Predicting Weather-Related Failure Risk in Distribution Systems Using Bayesian Neural Network. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 12, 350-360	10.7	8
98	A RSSI-AOA-Based UHF Partial Discharge Localization Method Using MUSIC Algorithm. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-9	5.2	3
97	A Novel Optical Localization Method for Partial Discharge Source Using ANFIS Virtual Sensors and Simulation Fingerprint in GIL. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-11	5.2	6
96	Severity Evaluation of UHF Signals of Partial Discharge in GIS Based on Semantic Analysis. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	1
95	. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 1-1	7	2
94	Multiscale Fusion Simulation of the Influence of Temperature on the Partial Discharge Signal of GIS Insulation Void Defects. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	3
93	Accurate partial discharge localisation using a multi-deep neural network model trained with a novel virtual measurement method. <i>IET Science, Measurement and Technology</i> , <b>2021</b> , 15, 352	1.5	1
92	A novel partial discharge localization method for GIL based on the 3D optical signal irradiance fingerprint and bagging-KELM. <i>IET Generation, Transmission and Distribution</i> , <b>2021</b> , 15, 2240-2249	2.5	1

91	A Contour Angle Orientation for Power Equipment Infrared and Visible Image Registration. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 36, 2559-2569	4.3	6
90	Dynamic Topology Awareness in Active Distribution Networks Under DG Uncertainties Using GMM-PSEs and KL Divergence. <i>IEEE Transactions on Sustainable Energy</i> , <b>2021</b> , 12, 2086-2096	8.2	2
89	Detecting and Classifying Multiple Class Events in a Power Distribution System Based on an Eigenvalue Fluctuation Model. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	
88	Object recognition for power equipment via human-level concept learning. <i>IET Generation, Transmission and Distribution</i> , <b>2021</b> , 15, 1578-1587	2.5	2
87	. <i>IEEE Access</i> , <b>2020</b> , 8, 87434-87445	3.5	6
86	Incipient Fault Identification in Power Distribution Systems via Human-Level Concept Learning. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 5239-5248	10.7	12
85	Fault early warning in air-insulated substations by RSSI-based angle of arrival estimation and monopole UHF wireless sensor array. <i>IET Generation, Transmission and Distribution</i> , <b>2020</b> , 14, 2345-2351	2.5	3
84	A Method for Separating Multisource Partial Discharges in a Substation Based on Selected Bispectra of UHF Signals. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3751	2.6	2
83	A Classification System for Insulation Defect Identification of Gas-Insulated Switchgear (GIS), Based on Voiceprint Recognition Technology. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3995	2.6	2
82	Research on Time-Domain Transfer Impedance Measurement Technology for High Frequency Current Transformers in Partial Discharge Detection of Cables. <i>Journal of Shanghai Jiaotong University (Science)</i> , <b>2020</b> , 25, 10-17	0.6	1
81	An Optical Partial Discharge Localization Method Based on Simulation and Machine learning in GIL <b>2020</b> ,		2
80	. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 1-1	4.3	1
79	Partial discharge direction-of-arrival estimation in air-insulated substation by UHF wireless array and RSSI maximum likelihood estimator. <i>IET Generation, Transmission and Distribution</i> , <b>2020</b> , 14, 5491-5497	2.5	2
78	Application of random matrix model in multiple abnormal sources detection and location based on PMU monitoring data in distribution network. <i>IET Generation, Transmission and Distribution</i> , <b>2020</b> , 14, 6476-6483	2.5	2
77	Intelligent learning approach for UHF partial discharge localisation in air-insulated substations. <i>High Voltage</i> , <b>2020</b> , 5, 583-590	4.1	6
76	Power Distribution Network Dynamic Topology Awareness and Localization Based on Subspace Perturbation Model. <i>IEEE Transactions on Power Systems</i> , <b>2020</b> , 35, 1479-1488	7	14
75	Root-Cause Identification of Single Line-to-Ground Fault in Urban Small Current Grounding Systems Based on Correlation Dimension and Average Resistance. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 35, 1834-1843	4.3	5
74	Pattern Recognition of DC Partial Discharge on XLPE Cable Based on ADAM-DBN. <i>Energies</i> , <b>2020</b> , 13, 4566	3.1	1

73	A Fault Diagnosis Method of Power Transformer Based on Cost Sensitive One-Dimensional Convolution Neural Network <b>2020</b> ,		3
72	Computation and Analysis of Distribution System Resilience based on Elastic Network Modeling <b>2020</b> ,		1
71	Partial Discharge Pattern Recognition Based on 3D Graphs of Phase Resolved Pulse Sequence. <i>Energies</i> , <b>2020</b> , 13, 4103	3.1	7
70	High Accuracy Insulation Fault Diagnosis Method of Power Equipment Based on Power Maximum Likelihood Estimation. <i>IEEE Transactions on Power Delivery</i> , <b>2019</b> , 34, 1291-1299	4.3	5
69	Single Line-to-Ground Faulted Line Detection of Distribution Systems With Resonant Grounding Based on Feature Fusion Framework. <i>IEEE Transactions on Power Delivery</i> , <b>2019</b> , 34, 1766-1775	4.3	24
68	Fault-cause identification method based on adaptive deep belief network and time-frequency characteristics of travelling wave. <i>IET Generation, Transmission and Distribution</i> , <b>2019</b> , 13, 724-732	2.5	16
67	Penetrating power characteristics of half-wavelength AC transmission in point-to-grid system. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2019</b> , 7, 123-130	4	4
66	RSSI-Power-Based Direction of Arrival Estimation of Partial Discharges in Substations. <i>Energies</i> , <b>2019</b> , 12, 3450	3.1	3
65	Research on the Power Output Characteristics of a Coupling Transformer in D-FACTS. <i>Energies</i> , <b>2019</b> , 12, 4709	3.1	1
64	A Substation UHF Partial Discharge Detection Method Based on Maximum Likelihood Estimation <b>2019</b> ,		1
63	A Novel Partial Discharge Detection Method Based on the Photoelectric Fusion Pattern in GIL. <i>Energies</i> , <b>2019</b> , 12, 4120	3.1	2
62	Research on Distribution Network Fault Recognition Method Based on Time-Frequency Characteristics of Fault Waveforms. <i>IEEE Access</i> , <b>2018</b> , 6, 7291-7300	3.5	25
61	UHF partial discharge localisation method in substation based on dimension-reduced RSSI fingerprint. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 398-405	2.5	28
60	GIS partial discharge pattern recognition via deep convolutional neural network under complex data source. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 678-685	2.3	47
59	Application of EEMD and high-order singular spectral entropy to feature extraction of partial discharge signals. <i>IEEE Transactions on Electrical and Electronic Engineering</i> , <b>2018</b> , 13, 1002-1010	1	6
58	Inversion method to reconstruct fault transient traveling wave on overhead transmission lines. <i>International Transactions on Electrical Energy Systems</i> , <b>2018</b> , 28, e2546	2.2	2
57	Big Data Modeling and Analysis for Power Transmission Equipment: A Novel Random Matrix Theoretical Approach. <i>IEEE Access</i> , <b>2018</b> , 6, 7148-7156	3.5	19
56	Classification of partial discharge images within DC XLPE cables in contourlet domain. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 486-493	2.3	9

55	DC cable feature extraction based on the PD image in the non-subsampled contourlet transform domain. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 533-540	2.3	12
54	UHF partial discharge localization algorithm based on compressed sensing. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 21-29	2.3	21
53	A Novel Association Rule Mining Method of Big Data for Power Transformers State Parameters Based on Probabilistic Graph Model. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 695-702	10.7	42
52	Prediction Method for Power Transformer Running State Based on LSTM_DBN Network. <i>Energies</i> , <b>2018</b> , 11, 1880	3.1	12
51	Power Transformer Operating State Prediction Method Based on an LSTM Network. <i>Energies</i> , <b>2018</b> , 11, 914	3.1	8
50	Studies on electric field distribution and partial discharges of XLPE cable at DC voltage <b>2018</b> ,		1
49	System-level dynamic phasor models of hybrid AC/DC microgrids suitable for real-time simulation and small signal analysis. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 3607-3617	2.5	5
48	Direction of arrival estimation method for multiple UHF partial discharge sources based on virtual array extension. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1526-1534	2.3	12
47	Simulation analysis on the propagation of the optical partial discharge signal in I-shaped and L-shaped GILs. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1421-1428	2.3	9
46	LSTM networks for the trend prediction of gases dissolved in power transformer insulation oil <b>2018</b> ,		4
45	Prediction of Dissolved Gas Concentrations in Transformer Oil Based on the KPCA-FFOA-GRNN Model. <i>Energies</i> , <b>2018</b> , 11, 225	3.1	13
44	A Simulation Study on Optical Signal Propagation Characteristics of Partial Discharge in Single-core and Three-cores GIL <b>2018</b> ,		1
43	Simulation Study and Detection Position Analysis on Position of Partial Discharge Detection in XLPE Cable Cross-bonding System <b>2018</b> ,		2
42	Pattern Recognition of Partial Discharge Image Based on One-dimensional Convolutional Neural Network <b>2018</b> ,		16
41	Infrared and Visible Image Fusion of Electric Equipment Using FDST and DC-PCNN <b>2018</b> ,		1
40	Online Monitoring Data Cleaning of Transformer Considering Time Series Correlation <b>2018</b> ,		1
39	Fault diagnosis of transformer based on KPCA and Elman neural network <b>2018</b> ,		2
38	A time-domain characterization method for UHF partial discharge sensors. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 110-119	2.3	6

37	Partial Discharge Detection and Recognition in Random Matrix Theory Paradigm. <i>IEEE Access</i> , <b>2017</b> , 5, 8205-8213	3.5	16
36	Probabilistic small signal stability analysis with large scale integration of wind power considering dependence. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 69, 1258-1270	16.2	11
35	Partial discharge and noise separation in combined cable DFLs based on three-phase power ratios. <i>IET Generation, Transmission and Distribution</i> , <b>2017</b> , 11, 2740-2751	2.5	2
34	Reproduction Methodology for Single Phase-to-Ground Faults in Overhead Transmission Lines. <i>IEEE Access</i> , <b>2017</b> , 5, 17403-17413	3.5	8
33	Dissolved gas analysis of insulating oil for power transformer fault diagnosis with deep belief network. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 2828-2835	2.3	99
32	Insulating property of polypropylene nanocomposites filled with nano-MgO of different concentration. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 1430-1437	2.3	33
31	Cleaning Method for Status Monitoring Data of Power Equipment Based on Stacked Denoising Autoencoders. <i>IEEE Access</i> , <b>2017</b> , 5, 22863-22870	3.5	29
30	Effects of inorganic fillers on withstanding short-time breakdown and long-time electrical aging of epoxy composites. <i>IEEE Transactions on Electrical and Electronic Engineering</i> , <b>2017</b> , 12, S10-S15	1	9
29	Partial discharge pattern recognition of XLPE cables at DC voltage based on the compressed sensing theory. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 2977-2985	2.3	15
28	Micro-PMU for distribution power lines. <i>CIGRE - Open Access Proceedings Journal</i> , <b>2017</b> , 2017, 333-337	0.1	10
27	Error correction method based on multiple neural networks for UHF partial discharge localization. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 3730-3738	2.3	5
26	Image registration between visible and infrared images for electrical equipment inspection robots based on quadrilateral features <b>2017</b> ,		4
25	A Novel Partial Discharge Localization Method in Substation Based on a Wireless UHF Sensor Array. <i>Sensors</i> , <b>2017</b> , 17,	3.8	15
24	A Novel Transient Fault Current Sensor Based on the PCB Rogowski Coil for Overhead Transmission Lines. <i>Sensors</i> , <b>2016</b> , 16,	3.8	16
23	Experimental study on space charge and electrical strength of MgO nano-particles/polypropylene composite. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 1812-1819	2.3	14
22	A novel high-density power energy harvesting methodology for transmission line online monitoring devices. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 075119	1.7	9
21	Framework of Random Matrix Theory for Power System Data Mining in a Non-Gaussian Environment. <i>IEEE Access</i> , <b>2016</b> , 4, 9969-9977	3.5	10
20	Energy Estimation of Partial Discharge Pulse Signals Based on Noise Parameters. <i>IEEE Access</i> , <b>2016</b> , 4, 10270-10279	3.5	15

19	Probabilistic load flow calculation using cumulants and multiple integrals. <i>IET Generation, Transmission and Distribution</i> , <b>2016</b> , 10, 1703-1709	2.5	28
18	Identification of Lightning Strike on 500-kV Transmission Line Based on the Time-Domain Parameters of a Traveling Wave. <i>IEEE Access</i> , <b>2016</b> , 4, 7241-7250	3.5	11
17	A Versatile Probability Model of Photovoltaic Generation Using Pair Copula Construction. <i>IEEE Transactions on Sustainable Energy</i> , <b>2015</b> , 6, 1337-1345	8.2	50
16	A new standing-wave testing system for bridge structure nondestructive damage detection using electromagnetic wave. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , <b>2015</b> , 10, 157-165	1	3
15	Localization Algorithm for the PD Source in Substation Based on L-Shaped Antenna Array Signal Processing. <i>IEEE Transactions on Power Delivery</i> , <b>2015</b> , 30, 472-479	4.3	36
14	A Novel Algorithm for Separating Multiple PD Sources in a Substation Based on Spectrum Reconstruction of UHF Signals. <i>IEEE Transactions on Power Delivery</i> , <b>2015</b> , 30, 809-817	4.3	21
13	Robust Time Delay Estimation Method for Locating UHF Signals of Partial Discharge in Substation. <i>IEEE Transactions on Power Delivery</i> , <b>2013</b> , 28, 1960-1968	4.3	69
12	Configure Methodology of Onboard Supercapacitor Array for Recycling Regenerative Braking Energy of URT Vehicles. <i>IEEE Transactions on Industry Applications</i> , <b>2013</b> , 49, 1678-1686	4.3	28
11	Location Algorithm for Partial Discharge Based on Radio Frequency (RF) Antenna Array <b>2012</b> ,		5
10	Research on Auto-Tracking Algorithm for Power Line Inspection Based on Unmanned Aerial Vehicle <b>2012</b> ,		6
9	On-line monitoring system for icing state of overhead transmission line <b>2012</b> ,		1
8	Risk assessment of transmission dynamic line rating based on Monte Carlo <b>2011</b> ,		5
7	Application of adaptive neuro fuzzy inference system to the partial discharge pattern recognition <b>2009</b> ,		1
6	Secondary voltage regulation based on wide area network <b>2009</b> ,		5
5	Intelligent morphological filter applied to the signal processing of partial discharge for XLPE cable <b>2009</b> ,		1
4	Low Frequency Polarization Behavior of Nano-Ag/Low-density Polyethylene Composite <b>2006</b> ,		1
3	Dielectric Properties and Coulomb Blockade Effect in Nano-Ag/Silicone Resin Modified Polyester Composite. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2006</b> , 126, 1148-1152	0.2	1
2	Dielectric characteristics of nano-Ag/SP composite <b>2005</b> ,		1

1	Application status and development trends for intelligent perception of distribution network. <i>High Voltage,</i>	4.1	3
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