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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.

83

papers

903

citations

16

h-index

26

g-index

106

ext. papers

1,307

ext. citations

3.1

avg, IF

4.72

L-index

#	Paper	IF	Citations
83	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> , 2022 , 71, 1-11	5.2	
82	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> , 2022 , 1-1	2.3	0
81	An array virtual extension method for power equipment acoustic emission direction of arrival estimation based on high-order cumulants. <i>High Voltage</i> , 2021 , 6, 95-105	4.1	
80	Knowledge-Driven Recognition Methodology of Partial Discharge Patterns in GIS. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	3
79	Influence of Protrusion Tip Size on Current Pulse Characteristics of Negative Corona Discharge Based on Numerical Simulation. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	1
78	Method of GIL partial discharge localization based on natural neighbour interpolation and ECOC-MLP-SVM using optical simulation technology. <i>High Voltage</i> , 2021 , 6, 514-524	4.1	6
77	Application of multi-source information fusion based on D-S evidence theory in insulation defect identification of DC XLPE cable. <i>High Voltage</i> , 2021 , 6, 599-607	4.1	2
76	A RSSI-AOA-Based UHF Partial Discharge Localization Method Using MUSIC Algorithm. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-9	5.2	3
75	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> , 2021 , 70, 1-11	5.2	6
74	Severity Evaluation of UHF Signals of Partial Discharge in GIS Based on Semantic Analysis. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	1
73	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> , 2021 , 1-1	4.3	3
72	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> , 2021 , 15, 2240-2249	2.5	1
71	Detecting and Classifying Multiple Class Events in a Power Distribution System Based on an Eigenvalue Fluctuation Model. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	
70	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> , 2020 , 14, 2345-2351	2.5	3
69	A Method for Separating Multisource Partial Discharges in a Substation Based on Selected Bispectra of UHF Signals. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3751	2.6	2
68	A Classification System for Insulation Defect Identification of Gas-Insulated Switchgear (GIS), Based on Voiceprint Recognition Technology. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3995	2.6	2
67	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> , 2020 , 25, 10-17	0.6	1

66	An Optical Partial Discharge Localization Method Based on Simulation and Machine learning in GIL 2020,		2
65	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> , 2020 , 14, 5491-5497	3.5	2
64	Intelligent learning approach for UHF partial discharge localisation in air-insulated substations. <i>High Voltage</i> , 2020 , 5, 583-590	4.1	6
63	A Fault Diagnosis Method of Power Transformer Based on Cost Sensitive One-Dimensional Convolution Neural Network 2020,		3
62	Partial Discharge Pattern Recognition Based on 3D Graphs of Phase Resolved Pulse Sequence. <i>Energies</i> , 2020 , 13, 4103	3.1	7
61	High Accuracy Insulation Fault Diagnosis Method of Power Equipment Based on Power Maximum Likelihood Estimation. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 1291-1299	4.3	5
60	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> , 2019 , 34, 1766-1775	4.3	24
59	Fault-cause identification method based on adaptive deep belief network and time-frequency characteristics of travelling wave. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 724-732	2.5	16
58	Penetrating power characteristics of half-wavelength AC transmission in point-to-grid system. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 123-130	4	4
57	RSSI-Power-Based Direction of Arrival Estimation of Partial Discharges in Substations. <i>Energies</i> , 2019 , 12, 3450	3.1	3
56	Research on the Power Output Characteristics of a Coupling Transformer in D-FACTS. <i>Energies</i> , 2019 , 12, 4709	3.1	1
55	A Substation UHF Partial Discharge Detection Method Based on Maximum Likelihood Estimation 2019,		1
54	A Novel Partial Discharge Detection Method Based on the Photoelectric Fusion Pattern in GIL. <i>Energies</i> , 2019 , 12, 4120	3.1	2
53	UHF partial discharge localisation method in substation based on dimension-reduced RSSI fingerprint. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 398-405	2.5	28
52	GIS partial discharge pattern recognition via deep convolutional neural network under complex data source. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 678-685	2.3	47
51	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> , 2018 , 13, 1002-1010	1	6
50	Inversion method to reconstruct fault transient traveling wave on overhead transmission lines. <i>International Transactions on Electrical Energy Systems</i> , 2018 , 28, e2546	2.2	2
49	Big Data Modeling and Analysis for Power Transmission Equipment: A Novel Random Matrix Theoretical Approach. <i>IEEE Access</i> , 2018 , 6, 7148-7156	3.5	19

48	Classification of partial discharge images within DC XLPE cables in contourlet domain. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 486-493	2.3	9
47	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> , 2018 , 25, 533-540	2.3	12
46	UHF partial discharge localization algorithm based on compressed sensing. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 21-29	2.3	21
45	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> , 2018 , 9, 695-702	10.7	42
44	Prediction Method for Power Transformer Running State Based on LSTM_DBN Network. <i>Energies</i> , 2018 , 11, 1880	3.1	12
43	Power Transformer Operating State Prediction Method Based on an LSTM Network. <i>Energies</i> , 2018 , 11, 914	3.1	8
42	Studies on electric field distribution and partial discharges of XLPE cable at DC voltage 2018 ,		1
41	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> , 2018 , 25, 1526-1534	2.3	12
40	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> , 2018 , 25, 1421-1428	2.3	9
39	LSTM networks for the trend prediction of gases dissolved in power transformer insulation oil 2018 ,		4
38	A Convolutional Auto-Encoder Method for Anomaly Detection on System Logs 2018 ,		3
37	Prediction of Dissolved Gas Concentrations in Transformer Oil Based on the KPCA-FFOA-GRNN Model. <i>Energies</i> , 2018 , 11, 225	3.1	13
36	Simulation Study and Detection Position Analysis on Position of Partial Discharge Detection in XLPE Cable Cross-bonding System 2018 ,		2
35	Classification of Partial Discharge Images within DC XLPE Cables Based on Convolutional Deep Belief Network 2018 ,		2
34	Pattern Recognition of Partial Discharge Image Based on One-dimensional Convolutional Neural Network 2018 ,		16
33	Infrared and Visible Image Fusion of Electric Equipment Using FDST and DC-PCNN 2018 ,		1
32	Online Monitoring Data Cleaning of Transformer Considering Time Series Correlation 2018 ,		1
31	Fault diagnosis of transformer based on KPCA and Elman neural network 2018 ,		2

30	An Integrated Data Preprocessing Framework Based on Apache Spark for Fault Diagnosis of Power Grid Equipment. <i>Journal of Signal Processing Systems</i> , 2017 , 86, 221-236	1.4	22
29	A time-domain characterization method for UHF partial discharge sensors. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 110-119	2.3	6
28	Partial Discharge Detection and Recognition in Random Matrix Theory Paradigm. <i>IEEE Access</i> , 2017 , 5, 8205-8213	3.5	16
27	Partial discharge and noise separation in combined cableDHLs based on three-phase power ratios. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 2740-2751	2.5	2
26	Reproduction Methodology for Single Phase-to-Ground Faults in Overhead Transmission Lines. <i>IEEE Access</i> , 2017 , 5, 17403-17413	3.5	8
25	Dissolved gas analysis of insulating oil for power transformer fault diagnosis with deep belief network. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 2828-2835	2.3	99
24	Insulating property of polypropylene nanocomposites filled with nano-MgO of different concentration. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 1430-1437	2.3	33
23	Cleaning Method for Status Monitoring Data of Power Equipment Based on Stacked Denoising Autoencoders. <i>IEEE Access</i> , 2017 , 5, 22863-22870	3.5	29
22	Effects of inorganic fillers on withstanding short-time breakdown and long-time electrical aging of epoxy composites. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2017 , 12, S10-S15	1	9
21	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> , 2017 , 24, 2977-2985	2.3	15
20	Error correction method based on multiple neural networks for UHF partial discharge localization. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 3730-3738	2.3	5
19	A Novel Partial Discharge Localization Method in Substation Based on a Wireless UHF Sensor Array. <i>Sensors</i> , 2017 , 17,	3.8	15
18	A Novel Transient Fault Current Sensor Based on the PCB Rogowski Coil for Overhead Transmission Lines. <i>Sensors</i> , 2016 , 16,	3.8	16
17	Experimental study on space charge and electrical strength of MgO nano-particles/polypropylene composite. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 1812-1819	2.3	14
16	Partial discharge pattern recognition based on adaptive multi-resolution analysis of higher-order Singular Spectrum Entropy 2016 ,		1
15	UHF signal model parameters identification and reconstruction for partial discharge in substation 2016 ,		2
14	A novel high-density power energy harvesting methodology for transmission line online monitoring devices. <i>Review of Scientific Instruments</i> , 2016 , 87, 075119	1.7	9
13	Framework of Random Matrix Theory for Power System Data Mining in a Non-Gaussian Environment. <i>IEEE Access</i> , 2016 , 4, 9969-9977	3.5	10

12	Energy Estimation of Partial Discharge Pulse Signals Based on Noise Parameters. <i>IEEE Access</i> , 2016 , 4, 10270-10279	3.5	15
11	Identification of Lightning Strike on 500-kV Transmission Line Based on the Time-Domain Parameters of a Traveling Wave. <i>IEEE Access</i> , 2016 , 4, 7241-7250	3.5	11
10	Localization Algorithm for the PD Source in Substation Based on L-Shaped Antenna Array Signal Processing. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 472-479	4.3	36
9	An Improved Machine Learning Scheme for Data-Driven Fault Diagnosis of Power Grid Equipment 2015 ,		1
8	Improving Power Grid Monitoring Data Quality: An Efficient Machine Learning Framework for Missing Data Prediction 2015 ,		13
7	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> , 2015 , 30, 809-817	4.3	21
6	Robust Time Delay Estimation Method for Locating UHF Signals of Partial Discharge in Substation. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 1960-1968	4.3	69
5	Location Algorithm for Partial Discharge Based on Radio Frequency (RF) Antenna Array 2012 ,		5
4	Research on Auto-Tracking Algorithm for Power Line Inspection Based on Unmanned Aerial Vehicle 2012 ,		6
3	Risk assessment of transmission dynamic line rating based on Monte Carlo 2011 ,		5
2	Framework and implementation of secondary voltage regulation strategy based on multi-agent technology. <i>International Journal of Electrical Power and Energy Systems</i> , 2009 , 31, 67-77	5.1	17
1	Secondary voltage regulation based on wide area network 2009 ,		5