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List of Publications by Year
in descending order

106	1,563	361045	360668
papers	citations	20	35
		h-index	g-index

106	106	106	1256
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	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
6	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
7	Cleaning Method for Status Monitoring Data of Power Equipment Based on Stacked Denoising Autoencoders. IEEE Access, 2017, 5, 22863-22870.	2.6	46
8	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
9	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
10	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
11	An Integrated Data Preprocessing Framework Based on Apache Spark for Fault Diagnosis of Power Grid Equipment. Journal of Signal Processing Systems, 2017, 86, 221-236.	1.4	31
12	Pattern Recognition of Partial Discharge Image Based on One-dimensional Convolutional Neural Network. , 2018, , .		30
13	UHF partial discharge localization algorithm based on compressed sensing. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 21-29.	1.8	28
14	Prediction Method for Power Transformer Running State Based on LSTM_DBN Network. Energies, 2018, 11, 1880.	1.6	28
15	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
16	A Novel Transient Fault Current Sensor Based on the PCB Rogowski Coil for Overhead Transmission Lines. Sensors, 2016, 16, 742.	2.1	26
17	Big Data Modeling and Analysis for Power Transmission Equipment: A Novel Random Matrix Theoretical Approach. IEEE Access, 2018, 6, 7148-7156.	2.6	26
18	Power Transformer Operating State Prediction Method Based on an LSTM Network. Energies, 2018, 11, 914.	1.6	25

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19	Prediction of Dissolved Gas Concentrations in Transformer Oil Based on the KPCA-FFOA-GRNN Model. Energies, 2018, 11, 225.	1.6	24
20	Framework and implementation of secondary voltage regulation strategy based on multi-agent technology. International Journal of Electrical Power and Energy Systems, 2009, 31, 67-77.	3.3	22
21	Partial Discharge Detection and Recognition in Random Matrix Theory Paradigm. IEEE Access, 2017, 5, 8205-8213.	2.6	22
22	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
23	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
24	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
25	Improving Power Grid Monitoring Data Quality: An Efficient Machine Learning Framework for Missing Data Prediction. , 2015, , .		19
26	Energy Estimation of Partial Discharge Pulse Signals Based on Noise Parameters. IEEE Access, 2016, 4, 10270-10279.	2.6	19
27	A Novel Partial Discharge Localization Method in Substation Based on a Wireless UHF Sensor Array. Sensors, 2017, 17, 1909.	2.1	19
28	A novel high-density power energy harvesting methodology for transmission line online monitoring devices. Review of Scientific Instruments, 2016, 87, 075119.	0.6	18
29	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
30	Framework of Random Matrix Theory for Power System Data Mining in a Non-Gaussian Environment. IEEE Access, 2016, 4, 9969-9977.	2.6	16
31	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
32	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
33	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
34	Intelligent learning approach for UHF partial discharge localisation in airâ€insulated substations. High Voltage, 2020, 5, 583-590.	2.7	15
35	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
36	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

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37	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
38	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
39	LSTM networks for the trend prediction of gases dissolved in power transformer insulation oil. , 2018, , .		12
40	Partial Discharge Pattern Recognition Based on 3D Graphs of Phase Resolved Pulse Sequence. Energies, 2020, 13, 4103.	1.6	12
41	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
42	Reproduction Methodology for Single Phase-to-Ground Faults in Overhead Transmission Lines. IEEE Access, 2017, 5, 17403-17413.	2.6	10
43	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
44	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
45	Knowledge-Driven Recognition Methodology of Partial Discharge Patterns in GIS. IEEE Transactions on Power Delivery, 2022, 37, 3335-3344.	2.9	10
46	Research on Auto-Tracking Algorithm for Power Line Inspection Based on Unmanned Aerial Vehicle. , 2012, , .		9
47	A Convolutional Auto-Encoder Method for Anomaly Detection on System Logs. , 2018, , .		9
48	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
49	Risk assessment of transmission dynamic line rating based on Monte Carlo. , 2011, , .		8
50	Online Monitoring Data Cleaning of Transformer Considering Time Series Correlation. , 2018, , .		8
51	A Fault Diagnosis Method of Power Transformer Based on Cost Sensitive One-Dimensional Convolution Neural Network. , 2020, , .		8
52	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
53	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
54	Secondary voltage regulation based on wide area network. , 2009, , .		7

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55	A time-domain characterization method for UHF partial discharge sensors. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 110-119.	1.8	7
56	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
57	Simulation Study and Detection Position Analysis on Position of Partial Discharge Detection in XLPE Cable Cross-bonding System. , 2018, , .		7
58	Location Algorithm for Partial Discharge Based on Radio Frequency (RF) Antenna Array. , 2012, , .		6
59	Studies on electric field distribution and partial discharges of XLPE cable at DC voltage. , 2018, , .		5
60	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
61	Fault diagnosis of transformer based on KPCA and Elman neural network. , 2018, , .		4
62	RSSI-Power-Based Direction of Arrival Estimation of Partial Discharges in Substations. Energies, 2019, 12, 3450.	1.6	4
63	A Novel Partial Discharge Detection Method Based on the Photoelectric Fusion Pattern in GIL. Energies, 2019, 12, 4120.	1.6	4
64	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
65	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
66	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
67	An Improved Machine Learning Scheme for Data-Driven Fault Diagnosis of Power Grid Equipment. , 2015, , .		3
68	Inversion method to reconstruct fault transient traveling wave on overhead transmission lines. International Transactions on Electrical Energy Systems, 2018, 28, e2546.	1.2	3
69	Classification of Partial Discharge Images within DC XLPE Cables Based on Convolutional Deep Belief Network. , 2018, , .		3
70	Image Detection Technology on Pin Defect to Overhead Power Lines. , 2020, , .		3
71	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
72	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

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73	An adaptive fault diagnosis method of power transformers based on combining oversampling and cost‐sensitive learning. IET Smart Grid, 2021, 4, 623-635.	1.5	3
74	Application of multi‐source information fusion based on D‐S evidence theory in insulation defect identification of DC XLPE cable. High Voltage, 2021, 6, 599-607.	2.7	3
75	Partial discharge direction‐of‐arrival estimation in air‐insulated substation by UHF wireless array and RSSI maximum likelihood estimator. IET Generation, Transmission and Distribution, 2020, 14, 5491-5497.	1.4	3
76	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
77	A method for fast mining abnormal state information of power equipment based on time series analysis. , 2014, , .		2
78	Study on space charge and electrical conductivity of polypropylene insulation material. , 2015, , .		2
79	UHF signal model parameters identification and reconstruction for partial discharge in substation. , 2016, , .		2
80	Partial discharge and noise separation in combined cable–OHLs based on three‐phase power ratios. IET Generation, Transmission and Distribution, 2017, 11, 2740-2751.	1.4	2
81	Infrared and Visible Image Fusion of Electric Equipment Using FDST and DC-PCNN. , 2018, , .		2
82	Research on the Power Output Characteristics of a Coupling Transformer in D-FACTS. Energies, 2019, 12, 4709.	1.6	2
83	A novel image‐orientation feature extraction method for partial discharges. IET Generation, Transmission and Distribution, 0, , .	1.4	2
84	An Optical Partial Discharge Localization Method Based on Simulation and Machine learning in GIL. , 2020, , .		2
85	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
86	Optical Characteristics and Fault Diagnosis of Partial Discharge in C_4F_7N/CO_2 Gas Mixture and SF_6 Based on Novel Multispectral Microarray Detection. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1079-1086.	1.8	2
87	Study on new method for distributed fault location of overhead transmission line. , 2011, , .		1
88	MOA Resistive Current Measure System Based on GPS and Wireless Technology. , 2012, , .		1
89	Partial discharge pattern recognition based on adaptive multi-resolution analysis of higher-order Singular Spectrum Entropy. , 2016, , .		1
90	Partial discharge feature extraction through contourlet transform for XLPE cable defect models classification. , 2016, , .		1

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91	A Method for Anomaly Detection of State Information of Transformer Based on Association Rules and Elman Neural Network. , 2018, , .		1
92	An Intelligent Transformer Warning Model based on Data-driven Bagging Decision Tree. , 2018, , .		1
93	Prediction system for dynamic transmission line load capacity based on PCA and online sequential extreme learning machine. , 2018, , .		1
94	A Substation UHF Partial Discharge Detection Method Based on Maximum Likelihood Estimation. , 2019, , .		1
95	Joint Acoustic Source Localization Algorithm Based on Summation and MUSIC Algorithm for Power equipment in Substations. , 2020, , .		1
96	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
97	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
98	Information Modeling and SCL Description of IED for Transformer Condition Monitoring Based on IEC61850. , 2012, , .		0
99	Power equipment anomaly detection based on spatiotemporal clustering. , 2016, , .		0
100	Modal analysis of three-phase cable systems based on a modified high-frequency model. , 2017, , .		0
101	Research on leakage current analysis of DC cable based on wavelet packet multi - scale decomposition. , 2018, , .		0
102	Simulation on Propagation Characteristics of Optical Signals of Partial Discharge in Single-core and Three-cores GIL. , 2018, , .		0
103	A prediction method for power transformer state parameters based on feature attention mechanism. , 2019, , .		0
104	Study on partial discharge characteristics of C_4F_7N/CO_2 gas mixture GIL based on the integrated optical-UHF detection. , 2019, , .		0
105	Research on Partial Discharge Signal Detection Based on UHF Sensor Array and Eigenvalue Behavior Analysis. , 2020, , .		0
106	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