Sivaji Chakravorti

List of Publications by Year
in descending order

198 papers	2,569 citations	172386 29 h-index	289141 40 g-index
199 all docs	199 docs citations	199 times ranked	1338 citing authors

#	Article	IF	Citations
1	Recent Trends in the Condition Monitoring of Transformers. Power Systems, 2013, , .	0.3	77
2	A methodology for identification and localization of partial discharge sources using optical sensors. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 18-28.	1.8	70
3	Cross-wavelet transform as a new paradigm for feature extraction from noisy partial discharge pulses. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 157-166.	1.8	65
4	A deep learning framework using convolution neural network for classification of impulse fault patterns in transformers with increased accuracy. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3894-3897.	1.8	58
5	Assessment of interfacial charge accumulation in oil-paper interface in transformer insulation from polarization-depolarization current measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1665-1673.	1.8	54
6	Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. IEEE Sensors Journal, 2013, 13, 563-573.	2.4	51
7	Time and frequency domain analyses based expert system for impulse fault diagnosis in transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2002, 9, 433-445.	1.8	50
8	Condition assessment of cellulosic part in power transformer insulation using transfer function zero of modified debye model. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 2028-2036.	1.8	48
9	An expert system approach for transformer insulation diagnosis combining conventional diagnostic tests and PDC, RVM data. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 882-891.	1.8	46
10	Power frequency and impulse field calculation around a HV insulator with uniform or nonuniform surface pollution. IEEE Transactions on Electrical Insulation, 1993, 28, 43-53.	0.8	45
11	Performance of a load-immune classifier for robust identification of minor faults in induction motor stator winding. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 33-44.	1.8	45
12	Improved tribological behavior of lubricating oil dispersed with hybrid nanoparticles of functionalized carbon spheres and graphene nano platelets. Applied Surface Science, 2021, 540, 148402.	3.1	45
13	Wavelet-Aided SVM Tool for Impulse Fault Identification in Transformers. IEEE Transactions on Power Delivery, 2006, 21, 1283-1290.	2.9	43
14	Monitoring of inter-turn insulation failure in induction motor using advanced signal and data processing tools. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1599-1608.	1.8	43
15	A modified Maxwell model for characterization of relaxation processes within insulation system having non-uniform aging due to temperature gradient. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 524-534.	1.8	42
16	Diagnosis of Power Quality Events Based on Detrended Fluctuation Analysis. IEEE Transactions on Industrial Electronics, 2018, 65, 7322-7331.	5.2	42
17	Boundary element studies on insulator shape and electric field around HV insulators with or without pollution. IEEE Transactions on Dielectrics and Electrical Insulation, 2000, 7, 169-176.	1.8	41
18	Rough-granular approach for impulse fault classification of transformers using cross-wavelet transform. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 1297-1304.	1.8	41

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19	Pattern classification of impulse faults in transformers by wavelet analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2002, 9, 555-561.	1.8	40
20	Prediction of moisture present in cellulosic part of power transformer insulation using transfer function of modified debye model. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1368-1375.	1.8	40
21	Estimation of time-to-flashover characteristics of contaminated electrolytic surfaces using a neural network. IEEE Transactions on Dielectrics and Electrical Insulation, 1995, 2, 1064-1074.	1.8	37
22	Estimation of paper moisture content based on dielectric dissipation factor of oil-paper insulation under non-sinusoidal excitations. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 822-830.	1.8	37
23	An approach based on rough set theory for identification of single and multiple partial discharge source. International Journal of Electrical Power and Energy Systems, 2013, 46, 163-174.	3.3	34
24	Importance of denoising in dielectric response measurements of transformer insulation: An uncertainty analysis based approach. Measurement: Journal of the International Measurement Confederation, 2010, 43, 54-66.	2.5	33
25	Assessment of non-uniform aging of solid dielectric using system poles of a modified debye model for oil-paper insulation of transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1922-1933.	1.8	33
26	Effect of temperature on frequency dependent dielectric parameters of oil-paper insulation under non-sinusoidal excitation. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 653-661.	1.8	33
27	A Novel Leakage Current Index for the Field Monitoring of Overhead Insulators Under Harmonic Voltage. IEEE Transactions on Industrial Electronics, 2018, 65, 1568-1576.	5.2	33
28	Wavelet analysis of optical signal extracted from a non-contact fibre-optic vibration sensor using an extrinsic Fabry–Perot interferometer. Measurement Science and Technology, 2005, 16, 1075-1082.	1.4	32
29	Cross-Spectrum Analysis-Based Scheme for Multiple Power Quality Disturbance Sensing Device. IEEE Sensors Journal, 2015, 15, 3989-3997.	2.4	31
30	Condition Assessment of Power Transformer Insulation Using Short-Duration Time-Domain Dielectric Spectroscopy Measurement Data. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4404-4411.	2.4	31
31	Application of Cole–Cole model to transformer oil–paper insulation considering distributed dielectric relaxation. High Voltage, 2019, 4, 72-79.	2.7	30
32	Impulse fault classification in transformers by fractal analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2003, 10, 109-116.	1.8	28
33	Wavelet Kernel based Convolutional Neural Network for Localization of Partial Discharge Sources within a Power Apparatus. IEEE Transactions on Industrial Informatics, 2020, , 1-1.	7.2	28
34	Effect of measurement temperature on power transformer insulation diagnosis using frequency–domain spectroscopy. IET Science, Measurement and Technology, 2017, 11, 773-779.	0.9	27
35	Insulator contour optimization by a neural network. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 157-161.	1.8	25
36	Chemical vapor deposition synthesis of carbon spheres: Effects of temperature and hydrogen. Vacuum, 2020, 172, 109108.	1.6	25

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37	Application of artificial neural networks for optimization of electrode contour. IEEE Transactions on Dielectrics and Electrical Insulation, 1994, 1, 254-264.	1.8	24
38	Modeling of relaxation phenomena in transformer oil-paper insulation for understanding dielectric response measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3190-3198.	1.8	24
39	Effect of charge accumulated at oil–paper interface on parameters considered for power transformer insulation diagnosis. IET Science, Measurement and Technology, 2018, 12, 411-417.	0.9	24
40	Method for identifying ageing in epoxy–mica composite insulation used in rotational machines through modelling of dielectric relaxation. High Voltage, 2020, 5, 184-190.	2.7	24
41	Capacitive-resistive field calculation on HV bushings using the boundary-element method. IEEE Transactions on Dielectrics and Electrical Insulation, 1998, 5, 237-244.	1.8	23
42	An expert system for fault diagnosis in transformers during impulse tests. , 0, , .		21
43	Cross-correlation aided wavelet network for classification of dynamic insulation failures in transformer winding during impulse test. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 521-532.	1.8	21
44	Cross-spectrum analysis based methodology for discrimination and localization of partial discharge sources using acoustic sensors. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3556-3565.	1.8	21
45	Studies on the effects of moisture and ageing on charge de–trapping properties of oil–impregnated pressboard based on IRC measurement. High Voltage, 2019, 4, 151-157.	2.7	20
46	Investigation of Dielectric Properties of TiO2 and Al2O3 nanofluids by Frequency Domain Spectroscopy at Different Temperatures. Journal of Molecular Liquids, 2021, 330, 115642.	2.3	20
47	Wavelet aided SVM classifier for stator inter-turn fault monitoring in induction motors. , 2010, , .		19
48	Determination of optimized slope of triangular excitation for condition assessment of oil-paper insulation by frequency domain spectroscopy. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1303-1312.	1.8	19
49	A method to estimate activation energy of power transformer insulation using time domain spectroscopy data. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3245-3253.	1.8	19
50	Studies of the effect of temperature on the charge trapping and de-trapping processes of polymeric insulators through depolarization current measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1896-1904.	1.8	18
51	Use of chirp excitations for frequency domain spectroscopy measurement of oil-paper insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1103-1111.	1.8	18
52	Self-organizing feature map based unsupervised technique for detection of partial discharge sources inside electrical substations. Measurement: Journal of the International Measurement Confederation, 2019, 147, 106818.	2.5	18
53	Performance of a load-immune classifier for robust identification of minor faults in induction motor stator winding. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 33-44.	1.8	18
54	SVM Classifier for Impulse Fault Identification in Transformers using Fractal Features. IEEE Transactions on Dielectrics and Electrical Insulation, 2007, 14, 1538-1547.	1.8	17

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55	Separating induction Motor Current Signature for stator winding faults from that due to supply voltage unbalances. , 2012, , .		17
56	Compensating the effect of temperature variation on dielectric response of oil-paper insulation used in power transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2462-2474.	1.8	17
57	Reduction of time domain insulation response measurement duration for fast and effective diagnosis of power transformer. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1932-1940.	1.8	17
58	Use of Interfacial Charge for Diagnosis and Activation Energy Prediction of Oil-Paper Insulation Used in Power Transformer. IEEE Transactions on Power Delivery, 2019, 34, 1332-1340.	2.9	17
59	Electrode-spacer contour optimization by ANN aided genetic algorithm. IEEE Transactions on Dielectrics and Electrical Insulation, 2004, 11, 964-975.	1.8	16
60	Time-frequency analysis of multiple fringe and nonsinusoidal signals obtained from a fiber-optic vibration sensor using an extrinsic Fabry-Pe/spl acute/rot interferometer. Journal of Lightwave Technology, 2006, 24, 2122-2131.	2.7	16
61	A Hybrid Filtering Scheme for Proper Denoising of Real-time Data in Dielectric Spectroscopy. IEEE Transactions on Dielectrics and Electrical Insulation, 2007, 14, 1323-1331.	1.8	16
62	Identification of simultaneously occurring dynamic disc-to-disc insulation failures in transformer winding under impulse excitation. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 443-453.	1.8	16
63	Reducing frequency domain spectroscopy measurement time for condition monitoring of transformer oil–paper insulation using non–sinusoidal excitations. IET Science, Measurement and Technology, 2017, 11, 204-212.	0.9	16
64	Cross-correlation-aided Fuzzy c-Means for Classification of Dynamic Faults in Transformer Winding During Impulse Testing. Electric Power Components and Systems, 2010, 38, 1513-1530.	1.0	15
65	A new approach for determination of moisture in paper insulation of in-situ power transformers by combining polarization-depolarization current and return voltage measurement results. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 2325-2334.	1.8	15
66	Highly Efficient Amorphous Carbon Sphere-Based Superhydrophobic and Superoleophilic Sponges for Oil/Water Separation. Langmuir, 2021, 37, 12501-12511.	1.6	15
67	A Novel Approach Based on Simulated Annealing Coupled to Artificial Neural Network for 3-D Electric-Field Optimization. IEEE Transactions on Power Delivery, 2005, 20, 2144-2152.	2.9	14
68	A UHF Sensor Based Partial Discharge Monitoring System for Air Insulated Electrical Substations. IEEE Transactions on Power Delivery, 2021, 36, 3649-3656.	2.9	14
69	Non-linear modeling of oil-paper insulation for condition assessment using non-sinusoidal excitation. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2165-2175.	1.8	13
70	Estimation of paper–moisture in transformer insulation employing dielectric spectroscopy data. IET Science, Measurement and Technology, 2018, 12, 536-541.	0.9	13
71	Wavelet network-based classification of transients using dominant frequency signature. Electric Power Systems Research, 2008, 78, 21-29.	2.1	12
72	Study on charge de-trapping and dipolar relaxation properties of epoxy resin from discharging current measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3811-3820.	1.8	12

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73	A Cross-Wavelet Transform Aided Rule Based Approach for Early Prediction of Lean Blow-out in Swirl-Stabilized Dump Combustor. International Journal of Spray and Combustion Dynamics, 2015, 7, 69-90.	0.4	11
74	A method for unambiguous identification of on-field recorded insulator leakage current waveforms portraying electrical activity on the surface. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2156-2164.	1.8	11
75	Condition assessment of various regions within non–uniformly aged cellulosic insulation of power transformer using modified Debye model. IET Science, Measurement and Technology, 2017, 11, 939-947.	0.9	11
76	A Non-Linear Model for Sensing Moisture Content in Transformers at Reduced Time. IEEE Sensors Journal, 2019, 19, 4639-4646.	2.4	11
77	Investigations on tribological properties of non-catalytic CVD synthesized carbon spheres in lubricant. Diamond and Related Materials, 2020, 106, 107834.	1.8	11
78	Detrapped Charge-Affected Depolarization-Current Estimation Using Short-Duration Dielectric Response for Diagnosis of Transformer Insulation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7695-7702.	2.4	11
79	Temperature Compensation of Frequency Domain Spectroscopy Measurement for Condition Assessment of Oil-Paper Insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 255-263.	1.8	11
80	Wavelet transform-based impulse fault pattern recognition in distribution transformers. IEEE Transactions on Power Delivery, 2003, 18, 1588-1589.	2.9	10
81	Estimation of dielectric dissipation factor of cellulosic parts in oil-paper insulation by frequency domain spectroscopy. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2720-2729.	1.8	10
82	Investigations on charge trapping and de-trapping properties of polymeric insulators through discharge current measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 583-591.	1.8	10
83	Time growing frequency sweep signal based insulation condition monitoring in frequency domain spectroscopy. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1898-1906.	1.8	9
84	A modified Maxwell model for modeling dielectric response of oil-paper insulation affected by radial and axial temperature gradients. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1000-1009.	1.8	9
85	Implementation of an Integrated, Portable Transformer Condition Monitoring Instrument in the Classroom and On-Site. IEEE Transactions on Education, 2010, 53, 484-489.	2.0	8
86	Introduction to Condition Monitoring of Transformer Insulation. Power Systems, 2013, , 1-26.	0.3	8
87	Compensating the effect of residual dipole energy on dielectric response for effective diagnosis of power transformer insulation. IET Science, Measurement and Technology, 2018, 12, 314-322.	0.9	8
88	Time–varying model for the effective diagnosis of oil–paper insulation used in power transformers. IET Generation, Transmission and Distribution, 2019, 13, 1527-1534.	1.4	8
89	Efficient field calculation in three-core belted cable by charge simulation using complex charges. IEEE Transactions on Electrical Insulation, 1992, 27, 1208-1212.	0.8	7
90	Investigations on the usefulness of an expert system for impulse fault analysis in distribution transformers. Electric Power Systems Research, 2003, 65, 149-157.	2.1	7

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91	Time-Frequency Representation of Resistance for Modeling of Transformer Winding Under Impulse Test. IEEE Transactions on Power Delivery, 2006, 21, 1367-1374.	2.9	7
92	Studies on Partial Discharge Simulation Based on a Stochastic Model Considering the Variation of Discharge Area and Temperature of the Void Surface. International Journal for Computational Methods in Engineering Science and Mechanics, 2009, 10, 393-405.	1.4	7
93	Relating stator current Concordia patterns to induction motor operational abnormalities. , 2011, , .		7
94	Low‑complexity leakage current acquisition system for transmission line insulators employing GSM voice channel. Electronics Letters, 2015, 51, 1538-1540.	0.5	7
95	Methods for Localization of Partial Discharge Sources within Air Insulated Electrical Substation. , 2018, , .		7
96	Accelerating Moisture Content Sensing of Oil-Impregnated Paper Insulation Using Frequency Modulated Square Wave Excitations. , 2019, 3, 1-4.		7
97	Enhanced Field Calculation for HVDC GIS. , 2001, , 473-483.		7
98	Estimation of de‑trapped charge for diagnosis of transformer insulation using short‑duration polarisation current employing detrended fluctuation analysis. High Voltage, 2020, 5, 636-641.	2.7	7
99	Classification of dynamic insulation failures in transformer winding during impulse test using cross-wavelet transform aided foraging algorithm. IET Electric Power Applications, 2010, 4, 715.	1.1	6
100	Simulation of PD patterns due to a narrow void in different E-field distribution. Journal of Electrostatics, 2010, 68, 218-226.	1.0	6
101	A comparative study of conductivity and moisture for condition assessment of oil-paper insulation of a transformer. , 2015, , .		6
102	A method to accelerate FDS measurement using logarithmic chirp excitation voltage. , 2017, , .		6
103	Influence of charging voltage magnitude on time domain dielectric response of oil–paper insulation. IET Science, Measurement and Technology, 2019, 13, 874-882.	0.9	6
104	De‑noising of time‑domain spectroscopy data for reliable assessment of power transformer insulation. IET Generation, Transmission and Distribution, 2020, 14, 1500-1507.	1.4	6
105	Can fractal techniques be used for impulse fault pattern discrimination in distribution transformers?. Electric Power Systems Research, 2004, 68, 258-267.	2.1	5
106	Key Issues Pertaining to Aging, Maintenance and Reliability of Electricity Infrastructure. , 2006, , .		5
107	Anomalies in harmonic distortion and Concordia pattern analyses in induction motors due to capacitor bank malfunctions. , 2009, , .		5
108	A Modular Approach for Teaching Partial Discharge Phenomenon Through Experiment. IEEE Transactions on Education, 2011, 54, 410-415.	2.0	5

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109	Application of wavelet transform to discriminate induction motor stator winding short circuit faults from incipient insulation failures. , 2012, , .		5
110	Assessment of moisture diffusion distance in pressboard insulation within transformer using Fick's law. , 2014, , .		5
111	Temperature monitoring of power transformer using fiber-optic sensor. , 2015, , .		5
112	Evaluating the effects of lower molecular weight acids in oil-paper insulated transformer. , 2017, , .		5
113	Influence of temperature on interfacial charge of power transformer insulation. IET Science, Measurement and Technology, 2019, 13, 1059-1067.	0.9	5
114	Investigation related to performance parameter estimation of power transformer insulation using interfacial charge. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1247-1255.	1.8	5
115	Effective analysis of time€domain dielectric response for reliable diagnosis of power transformer insulation using statistical parameter evaluated from time€varying model. IET Science, Measurement and Technology, 2020, 14, 48-55.	0.9	5
116	Leakage Current Monitoring of Suspension Insulator for Effective Determination of ESDD. , 2019, , .		5
117	A Novel Method to Predict Severity of Thermal Aging and Degree of Polymerization for Reliable Diagnosis of Dry-Type Insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, , 1-1.	1.8	5
118	Understanding the effects of moisture equlibrium process on dielectric response measurements for transformer oil-paper insulation systems. , 2012, , .		4
119	Cross Hilbert-Huang transform based feature extraction method for multiple PQ disturbance classification. , 2013, , .		4
120	An advanced technique for frequency domain spectroscopy of oil-paper insulation at reduced time using triangular excitation. , 2015, , .		4
121	Thermodynamic equilibrium of transformer oil-paper insulation â€" An experimental study. , 2016, , .		4
122	Effect of temperature on condition assessment of oil-paper insulation using polarization-depolarization current. , 2016, , .		4
123	A novel method to predict moisture in cellulosic insulation of power transformer with improved accuracy using time domain spectroscopy data. , 2017, , .		4
124	Estimation of paper conductivity from short duration polarisation€"depolarisation current for diagnosis of power transformer. IET Science, Measurement and Technology, 2019, 13, 1178-1185.	0.9	4
125	Detection of PD Activities in XLPE Cable Using UHF Antennas. , 2019, , .		4
126	Prediction of Insulation Sensitive Parameters of Power Transformer Using Detrended Fluctuation Analysis Based Method. IEEE Transactions on Power Delivery, 2022, 37, 1963-1973.	2.9	4

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127	Partial Discharge Measurement and Analysis. Power Systems, 2013, , 61-115.	0.3	4
128	Translationally adaptive fuzzy classifier for transformer impulse fault identification. IET Generation, Transmission and Distribution, 2003, 150, 33.	1.1	3
129	Studies on transients in high voltage line: experimental and simulation results. , 2006, , .		3
130	Real Life Experiences in the Construction of a Large Laboratory having High Quality Electromagnetic Shielding. , 2006, , .		3
131	Experimental Investigation of the Electromagnetic Signal Attenuation Characteristics of the Partial Discharge Laboratory at Jadavpur University. International Journal of Emerging Electric Power Systems, 2008, 9, .	0.6	3
132	An attempt to identify voltage related non-linearities of transformer insulation from dielectric response measurements. , 2011, , .		3
133	Surface resistance modified electric field computation in asymmetric configuration using surface charge simulation method: a new approach. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1068-1075.	1.8	3
134	Understanding the correlation between dielectric response measurement results and equivalent circuit pole locations of a transformer oil paper insulation system. , 2013, , .		3
135	Characterization of short circuit faults and incipient insulation degradation between stator winding turns of induction motor. , 2013, , .		3
136	Remote condition monitoring of high voltage insulators employing GSM network. , 2013, , .		3
137	Cole-cole representation of transformer oil-paper insulation dielectric response. , 2017, , .		3
138	Influence of De-Trapped Charge Polarity in Sensing Health of Power Transformer Insulation. IEEE Sensors Journal, 2022, 22, 6706-6716.	2.4	3
139	Experimental investigation on the EM signal attenuation characteristics of a single-layer metal shielded laboratory. , 2006, , .		2
140	FDM based simulation of PD patterns due to narrow void considering stochastic parameters. , 2006, , .		2
141	Investigations on the effect of dynamic fault on impulse fault current waveforms of transformer. , 2009, , .		2
142	Frequency domain dielectric spectroscopy using Triangular waveform. , 2012, , .		2
143	Insulation geometry independent aging sensitive parameter evaluated from transfer function of Debye model for condition assessment of oil-paper insulation. , 2013, , .		2
144	A low-complexity parametric modeling technique for insulator leakage current based on synchronous detection. , 2015, , .		2

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145	Investigations on the effect of voltage harmonics on leakage current for condition monitoring in insulators. , 2016, , .		2
146	Investigation of charge trapping behavior of LDPE using de-trapping characteristics. , 2016, , .		2
147	Influence of insulation model parameters on transfer function zero evaluated for diagnosis of oil-paper insulation. , 2017, , .		2
148	Effect of introduced charge on frequency domain dielectric response of oil-paper insulation. , 2017, , .		2
149	Comparison of different methods available for evaluating remaining life of OIP insulation used in power transformers. , 2017, , .		2
150	Contamination Level Assessment in Porcelain Disc Insulator using Detrended Fluctuation Analysis. , 2019, , .		2
151	Ageing of DC conduction in thermally aged oilâ€impregnated pressboard. IET Science, Measurement and Technology, 2021, 15, 232-240.	0.9	2
152	Neural networkâ€"based methodology to study effects of oil properties on induction period evaluated from response of oilâ€paper insulation employing mineral oil, ester, and mixture. IET Science, Measurement and Technology, 2019, 13, 606-613.	0.9	2
153	Estimation of Activation Energy of Transformer Insulation from Frequency Domain Spectroscopy Measurement Performed at a Particular Temperature. , 2021, , .		2
154	Fractal-ANN Tool for Classification of Impulse Faults in Transformers. , 0, , .		1
155	Transient Studies in an Isolated Power System using Wavelet Transform based Dominant Frequency Signature. , 2006, , .		1
156	Wavelet Network for Estimation of Non-Linear Functions in High Voltage Systems. , 2008, , .		1
157	Classification of impulse fault response patterns in transformers using cascaded wavelet network. International Journal of Power and Energy Conversion, 2009, 1, 243.	0.2	1
158	Comparative study on the effect of temperature on frequency domain spectroscopy results under sinusoidal and triangular excitation. , 2012, , .		1
159	Condition assessment of in-situ generator transformers by frequency domain analysis using time domain data. , 2012, , .		1
160	A novel methodology for on-site validation of RV measurement data. , 2012, , .		1
161	Remote monitoring of power frequency electrical signals employing GSM network. , 2014, , .		1
162	Microcontroller based remote updating system using voice channel of cellular network. , 2015, , .		1

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163	Modeling of a piezoelectric transducer for application in space charge detection using pressure wave propagation method. , 2015, , .		1
164	Effect of charge accumulated at oil-paper interface on zero of transfer function formulated using classical debye model parameters. , 2017, , .		1
165	Identification of charge injection and conduction properties of epoxy resin from polarization current measurements. , 2017, , .		1
166	Effect of Measurement Temperature on Interfacial Charge Freed from Deep Traps Located at the Interface of Oil-Paper Insulation. , 2018, , .		1
167	Time Domain Dielectric Response Measurements. Power Systems, 2013, , 153-191.	0.3	1
168	Impulse Fault Analysis. Power Systems, 2013, , 27-60.	0.3	1
169	Influence of Temperature Transient on Frequency Domain Dielectric Response of Oil-Paper Sample. , 2021, , .		1
170	Cross-wavelet transform based feature extraction for classification of noisy partial discharge signals. , 2008, , .		0
171	Development of an integrated detector unit for partial discharge data acquisition and analysis. , 2008, , .		0
172	Classification of Impulse Fault Patterns in Transformers Using Wavelet Network. , 2008, , .		0
173	Some observations on induction motor frequency characterizations under variable supply conditions. , 2008, , .		0
174	A new instrument for the measurement of peak value of non-sinusoidal asymmetric voltage over wide range of frequency. Measurement: Journal of the International Measurement Confederation, 2009, 42, 71-77.	2.5	0
175	Report on Kolkata DEI chapter. IEEE Electrical Insulation Magazine, 2012, 28, 65-66.	1.1	0
176	Studies on three feature extraction methods for the location and classification of dynamic fault patterns during impulse testing of transformer winding. International Journal of Power and Energy Conversion, 2012, 3, 265.	0.2	0
177	Modeling of self consistent field due to volume charge using charge simulation method and method of characteristics line. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 591-599.	1.8	0
178	Frequency domain spectroscopy of oil-paper insulation under sinusoidal and square wave excitations. , 2013, , .		0
179	Temperature and Frequency dependence of dielectric parameters of Oil-paper insulation under sinusoidal and square wave excitations. , 2013, , .		0
180	Condition assessment of oil-paper insulation in large power equipments using transfer function zero of debye model. , 2013, , .		0

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181	Correlation of dielectric model parameters with experimental results based on PDC, RV and loss factor measurements for high voltage capacitors. International Journal of Power and Energy Conversion, 2013, 4, 304.	0.2	0
182	In search of more effective ways of representing dielectric test data for condition assessment of transformer insulation. , 2014, , .		0
183	Simulation of pressure wave propagation method for space charge measurement in dielectrics. , 2015, , .		0
184	Comparative study of dielectric response functions for characterizing time domain polarization process in transformer insulation. , 2015, , .		0
185	Condition assessment of oil-paper insulation used in power transformer based on polarization energy. , 2015, , .		0
186	Space charge measurement in dielectrics using Pressure Wave Propagation method. , 2015, , .		0
187	Effect of interfacial charge on parameters considered for insulation diagnosis of power transformer. , 2017, , .		0
188	Effect of measurement temperature on transfer function zero evaluated for condition assessment of oil-paper insulation. , 2017, , .		0
189	Development of a low cost portable frequency domain spectroscopy data measurement module for oil-paper insulation. , 2017, , .		0
190	Feasibility of using Normalized De-trapped Charge for Diagnosis of Power Transformer Insulation. , 2018, , .		0
191	Effect of Measurement Temperature of Insulation Poles Used for Assessment of Oil-paper Insulation. , 2018, , .		0
192	Estimation of Performance Parameters Using Charge Freed from Deep Traps Located at Interfacial Region of Oil-Paper Insulation. , 2019, , .		0
193	Influence of Presence of Acids in Transformer Insulation: A study using Cole-Cole Plots. , 2019, , .		0
194	A Method to Predict Degree of Polymerization Value of Oil-paper Insulation Using Interfacial Charge. , 2019, , .		0
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