

Sivaji Chakravorti

List of Publications by Year in descending order

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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	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
2	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
3	Influence of De-Trapped Charge Polarity in Sensing Health of Power Transformer Insulation. IEEE Sensors Journal, 2022, 22, 6706-6716.	2.4	3
4	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
5	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
6	Ageing of DC conduction in thermally aged oil-impregnated pressboard. IET Science, Measurement and Technology, 2021, 15, 232-240.	0.9	2
7	Investigation of Dielectric Properties of TiO ₂ and Al ₂ O ₃ nanofluids by Frequency Domain Spectroscopy at Different Temperatures. Journal of Molecular Liquids, 2021, 330, 115642.	2.3	20
8	Highly Efficient Amorphous Carbon Sphere-Based Superhydrophobic and Superoleophilic Sponges for Oil/Water Separation. Langmuir, 2021, 37, 12501-12511.	1.6	15
9	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
10	Estimation of Activation Energy of Transformer Insulation from Frequency Domain Spectroscopy Measurement Performed at a Particular Temperature. , 2021, , .		2
11	Influence of Temperature Transient on Frequency Domain Dielectric Response of Oil-Paper Sample. , 2021, , .		1
12	Diagnosis of Oil Paper Sample Using Capacitance Profile of Time Varying Model. , 2021, , .		0
13	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
14	Chemical vapor deposition synthesis of carbon spheres: Effects of temperature and hydrogen. Vacuum, 2020, 172, 109108.	1.6	25
15	Assessing the condition of Nomex paper-based Insulation in Open Wound and VPI type Dry-type Transformer using Frequency Domain Spectroscopy Data. , 2020, , .		0
16	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
17	Method for identifying ageing in epoxy-epoxy composite insulation used in rotational machines through modelling of dielectric relaxation. High Voltage, 2020, 5, 184-190.	2.7	24
18	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

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19	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
20	Investigations on tribological properties of non-catalytic CVD synthesized carbon spheres in lubricant. Diamond and Related Materials, 2020, 106, 107834.	1.8	11
21	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
22	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
23	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
24	Accelerating Moisture Content Sensing of Oil-Impregnated Paper Insulation Using Frequency Modulated Square Wave Excitations. , 2019, 3, 1-4.		7
25	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
26	Application of Cole-Cole model to transformer oil-paper insulation considering distributed dielectric relaxation. High Voltage, 2019, 4, 72-79.	2.7	30
27	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
28	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
29	A Non-Linear Model for Sensing Moisture Content in Transformers at Reduced Time. IEEE Sensors Journal, 2019, 19, 4639-4646.	2.4	11
30	Detection of PD Activities in XLPE Cable Using UHF Antennas. , 2019, , .		4
31	Contamination Level Assessment in Porcelain Disc Insulator using Detrended Fluctuation Analysis. , 2019, , .		2
32	Estimation of Performance Parameters Using Charge Freed from Deep Traps Located at Interfacial Region of Oil-Paper Insulation. , 2019, , .		0
33	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
34	Influence of temperature on interfacial charge of power transformer insulation. IET Science, Measurement and Technology, 2019, 13, 1059-1067.	0.9	5
35	Influence of Presence of Acids in Transformer Insulation: A study using Cole-Cole Plots. , 2019, , .		0
36	A Method to Predict Degree of Polymerization Value of Oil-paper Insulation Using Interfacial Charge. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	Substrate Temperature Optimization for Diamond Thin Film Synthesis using Hot-Filament Chemical Vapor Deposition. , 2019, , .		0
38	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
39	Thermal Model Parameters Identification of Power Transformer Using Nature-Inspired Optimization Algorithms. Advances in Intelligent Systems and Computing, 2019, , 399-410.	0.5	0
40	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
41	Neural network-based methodology to study effects of oil properties on induction period evaluated from response of oil-paper insulation employing mineral oil, ester, and mixture. IET Science, Measurement and Technology, 2019, 13, 606-613.	0.9	2
42	Leakage Current Monitoring of Suspension Insulator for Effective Determination of ESDD. , 2019, , .		5
43	Diagnosis of Power Quality Events Based on Detrended Fluctuation Analysis. IEEE Transactions on Industrial Electronics, 2018, 65, 7322-7331.	5.2	42
44	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
45	Feasibility of using Normalized De-trapped Charge for Diagnosis of Power Transformer Insulation. , 2018, , .		0
46	Effect of Measurement Temperature of Insulation Poles Used for Assessment of Oil-paper Insulation. , 2018, , .		0
47	Effect of Measurement Temperature on Interfacial Charge Freed from Deep Traps Located at the Interface of Oil-Paper Insulation. , 2018, , .		1
48	Methods for Localization of Partial Discharge Sources within Air Insulated Electrical Substation. , 2018, , .		7
49	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
50	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
51	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
52	Estimation of paper moisture in transformer insulation employing dielectric spectroscopy data. IET Science, Measurement and Technology, 2018, 12, 536-541.	0.9	13
53	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
54	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

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55	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
56	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
57	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
58	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
59	Reducing frequency domain spectroscopy measurement time for condition monitoring of transformer oilâ€paper insulation using nonâ€sinusoidal excitations. IET Science, Measurement and Technology, 2017, 11, 204-212.	0.9	16
60	A method to accelerate FDS measurement using logarithmic chirp excitation voltage. , 2017, , .		6
61	Condition assessment of various regions within nonâ€uniformly aged cellulosic insulation of power transformer using modified Debye model. IET Science, Measurement and Technology, 2017, 11, 939-947.	0.9	11
62	Effect of charge accumulated at oil-paper interface on zero of transfer function formulated using classical debye model parameters. , 2017, , .		1
63	Effect of interfacial charge on parameters considered for insulation diagnosis of power transformer. , 2017, , .		0
64	A novel method to predict moisture in cellulosic insulation of power transformer with improved accuracy using time domain spectroscopy data. , 2017, , .		4
65	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
66	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
67	Cole-cole representation of transformer oil-paper insulation dielectric response. , 2017, , .		3
68	Evaluating the effects of lower molecular weight acids in oil-paper insulated transformer. , 2017, , .		5
69	Identification of charge injection and conduction properties of epoxy resin from polarization current measurements. , 2017, , .		1
70	Effect of measurement temperature on transfer function zero evaluated for condition assessment of oil-paper insulation. , 2017, , .		0
71	Influence of insulation model parameters on transfer function zero evaluated for diagnosis of oil-paper insulation. , 2017, , .		2
72	Development of a low cost portable frequency domain spectroscopy data measurement module for oil-paper insulation. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
73	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
74	Effect of introduced charge on frequency domain dielectric response of oil-paper insulation. , 2017, , .		2
75	Comparison of different methods available for evaluating remaining life of OIP insulation used in power transformers. , 2017, , .		2
76	Thermodynamic equilibrium of transformer oil-paper insulation " An experimental study. , 2016, , .		4
77	Effect of temperature on condition assessment of oil-paper insulation using polarization-depolarization current. , 2016, , .		4
78	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
79	Investigations on the effect of voltage harmonics on leakage current for condition monitoring in insulators. , 2016, , .		2
80	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
81	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
82	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
83	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
84	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
85	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
86	Investigation of charge trapping behavior of LDPE using de-trapping characteristics. , 2016, , .		2
87	Simulation of pressure wave propagation method for space charge measurement in dielectrics. , 2015, , .		0
88	Comparative study of dielectric response functions for characterizing time domain polarization process in transformer insulation. , 2015, , .		0
89	A comparative study of conductivity and moisture for condition assessment of oil-paper insulation of a transformer. , 2015, , .		6
90	Condition assessment of oil-paper insulation used in power transformer based on polarization energy. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
91	Microcontroller based remote updating system using voice channel of cellular network. , 2015, , .		1
92	Space charge measurement in dielectrics using Pressure Wave Propagation method. , 2015, , .		0
93	Temperature monitoring of power transformer using fiber-optic sensor. , 2015, , .		5
94	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
95	A low-complexity parametric modeling technique for insulator leakage current based on synchronous detection. , 2015, , .		2
96	Cross-Spectrum Analysis-Based Scheme for Multiple Power Quality Disturbance Sensing Device. IEEE Sensors Journal, 2015, 15, 3989-3997.	2.4	31
97	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
98	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
99	Low-complexity leakage current acquisition system for transmission line insulators employing GSM voice channel. Electronics Letters, 2015, 51, 1538-1540.	0.5	7
100	Modeling of a piezoelectric transducer for application in space charge detection using pressure wave propagation method. , 2015, , .		1
101	An advanced technique for frequency domain spectroscopy of oil-paper insulation at reduced time using triangular excitation. , 2015, , .		4
102	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
103	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
104	Assessment of moisture diffusion distance in pressboard insulation within transformer using Fick's law. , 2014, , .		5
105	In search of more effective ways of representing dielectric test data for condition assessment of transformer insulation. , 2014, , .		0
106	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
107	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
108	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

#	ARTICLE	IF	CITATIONS
109	Remote monitoring of power frequency electrical signals employing GSM network. , 2014, , .		1
110	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
111	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
112	Understanding the correlation between dielectric response measurement results and equivalent circuit pole locations of a transformer oil paper insulation system. , 2013, , .		3
113	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
114	Frequency domain spectroscopy of oil-paper insulation under sinusoidal and square wave excitations. , 2013, , .		0
115	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
116	Characterization of short circuit faults and incipient insulation degradation between stator winding turns of induction motor. , 2013, , .		3
117	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
118	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
119	Recent Trends in the Condition Monitoring of Transformers. Power Systems, 2013, , .	0.3	77
120	Introduction to Condition Monitoring of Transformer Insulation. Power Systems, 2013, , 1-26.	0.3	8
121	Remote condition monitoring of high voltage insulators employing GSM network. , 2013, , .		3
122	Insulation geometry independent aging sensitive parameter evaluated from transfer function of Debye model for condition assessment of oil-paper insulation. , 2013, , .		2
123	Temperature and Frequency dependence of dielectric parameters of Oil-paper insulation under sinusoidal and square wave excitations. , 2013, , .		0
124	Cross Hilbert-Huang transform based feature extraction method for multiple PQ disturbance classification. , 2013, , .		4
125	Condition assessment of oil-paper insulation in large power equipments using transfer function zero of debye model. , 2013, , .		0
126	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

#	ARTICLE	IF	CITATIONS
127	Partial Discharge Measurement and Analysis. Power Systems, 2013, , 61-115.	0.3	4
128	Time Domain Dielectric Response Measurements. Power Systems, 2013, , 153-191.	0.3	1
129	Impulse Fault Analysis. Power Systems, 2013, , 27-60.	0.3	1
130	Frequency domain dielectric spectroscopy using Triangular waveform. , 2012, , .		2
131	Report on Kolkata DEI chapter. IEEE Electrical Insulation Magazine, 2012, 28, 65-66.	1.1	0
132	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
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	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
135	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
136	Comparative study on the effect of temperature on frequency domain spectroscopy results under sinusoidal and triangular excitation. , 2012, , .		1
137	Application of wavelet transform to discriminate induction motor stator winding short circuit faults from incipient insulation failures. , 2012, , .		5
138	Condition assessment of in-situ generator transformers by frequency domain analysis using time domain data. , 2012, , .		1
139	A novel methodology for on-site validation of RV measurement data. , 2012, , .		1
140	Understanding the effects of moisture equilibrium process on dielectric response measurements for transformer oil-paper insulation systems. , 2012, , .		4
141	Separating induction Motor Current Signature for stator winding faults from that due to supply voltage unbalances. , 2012, , .		17
142	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
143	An attempt to identify voltage related non-linearities of transformer insulation from dielectric response measurements. , 2011, , .		3
144	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

#	ARTICLE	IF	CITATIONS
145	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
146	A Modular Approach for Teaching Partial Discharge Phenomenon Through Experiment. IEEE Transactions on Education, 2011, 54, 410-415.	2.0	5
147	Relating stator current Concordia patterns to induction motor operational abnormalities. , 2011, , .		7
148	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
149	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
150	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
151	Simulation of PD patterns due to a narrow void in different E-field distribution. Journal of Electrostatics, 2010, 68, 218-226.	1.0	6
152	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
153	Wavelet aided SVM classifier for stator inter-turn fault monitoring in induction motors. , 2010, , .		19
154	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
155	Anomalies in harmonic distortion and Concordia pattern analyses in induction motors due to capacitor bank malfunctions. , 2009, , .		5
156	Investigations on the effect of dynamic fault on impulse fault current waveforms of transformer. , 2009, , .		2
157	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
158	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
159	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
160	Wavelet network-based classification of transients using dominant frequency signature. Electric Power Systems Research, 2008, 78, 21-29.	2.1	12
161	Cross-wavelet transform based feature extraction for classification of noisy partial discharge signals. , 2008, , .		0
162	Development of an integrated detector unit for partial discharge data acquisition and analysis. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
163	Wavelet Network for Estimation of Non-Linear Functions in High Voltage Systems. , 2008, , .		1
164	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
165	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
166	Classification of Impulse Fault Patterns in Transformers Using Wavelet Network. , 2008, , .		0
167	Some observations on induction motor frequency characterizations under variable supply conditions. , 2008, , .		0
168	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
169	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
170	Key Issues Pertaining to Aging, Maintenance and Reliability of Electricity Infrastructure. , 2006, , .		5
171	Studies on transients in high voltage line: experimental and simulation results. , 2006, , .		3
172	Experimental investigation on the EM signal attenuation characteristics of a single-layer metal shielded laboratory. , 2006, , .		2
173	FDM based simulation of PD patterns due to narrow void considering stochastic parameters. , 2006, , .		2
174	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
175	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
176	Wavelet-Aided SVM Tool for Impulse Fault Identification in Transformers. IEEE Transactions on Power Delivery, 2006, 21, 1283-1290.	2.9	43
177	Real Life Experiences in the Construction of a Large Laboratory having High Quality Electromagnetic Shielding. , 2006, , .		3
178	Transient Studies in an Isolated Power System using Wavelet Transform based Dominant Frequency Signature. , 2006, , .		1
179	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
180	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

#	ARTICLE	IF	CITATIONS
181	Can fractal techniques be used for impulse fault pattern discrimination in distribution transformers?. Electric Power Systems Research, 2004, 68, 258-267.	2.1	5
182	Electrode-spacer contour optimization by ANN aided genetic algorithm. IEEE Transactions on Dielectrics and Electrical Insulation, 2004, 11, 964-975.	1.8	16
183	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
184	Impulse fault classification in transformers by fractal analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2003, 10, 109-116.	1.8	28
185	Wavelet transform-based impulse fault pattern recognition in distribution transformers. IEEE Transactions on Power Delivery, 2003, 18, 1588-1589.	2.9	10
186	Translationally adaptive fuzzy classifier for transformer impulse fault identification. IET Generation, Transmission and Distribution, 2003, 150, 33.	1.1	3
187	Pattern classification of impulse faults in transformers by wavelet analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2002, 9, 555-561.	1.8	40
188	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
189	Insulator contour optimization by a neural network. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 157-161.	1.8	25
190	Enhanced Field Calculation for HVDC GIS. , 2001, , 473-483.		7
191	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
192	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
193	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
194	Application of artificial neural networks for optimization of electrode contour. IEEE Transactions on Dielectrics and Electrical Insulation, 1994, 1, 254-264.	1.8	24
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