

Issouf Fofana

List of Publications by Year in descending order

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Version: 2024-02-01

216
papers

3,897
citations

145106

33
h-index

190340

53
g-index

225
all docs

225
docs citations

225
times ranked

1536
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Grid for Sustainable Cities: Strategies and Pathways for Energy Efficiency Solutions. Smart Innovation, Systems and Technologies, 2022, , 317-327.	0.5	3
2	Mixed Insulating Liquids with Mineral Oil for High Voltage Transformer Applications: A Review. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, , 1-1.	1.8	13
3	Pre-Breakdown and Breakdown Behavior of Synthetic and Natural Ester Liquids under AC Stress. Energies, 2022, 15, 167.	1.6	5
4	Using structured laser illumination planar imaging (SLIPI) as a new technique to monitor the degradation of biodegradable oils in electrical power transformers. IET Generation, Transmission and Distribution, 2022, 16, 2642-2653.	1.4	1
5	Multiscale Analysis of Naturally Weathered High-Voltage XLPE Cable Insulation in Two Extreme Environments. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1599-1607.	1.8	6
6	Frequency Response Analysis Interpretation Using Numerical Indices and Machine Learning: A Case Study Based on a Laboratory Model. IEEE Access, 2021, 9, 67051-67063.	2.6	9
7	Security Risk Modeling in Smart Grid Critical Infrastructures in the Era of Big Data and Artificial Intelligence. Sustainability, 2021, 13, 3196.	1.6	50
8	Perspectives of Convertors and Communication Aspects in Automated Vehicles, Part 2: Printed Antennas and Sensors for Automotive Radars. Energies, 2021, 14, 1656.	1.6	2
9	Perspectives of Convertors and Communication Aspects in Automated Vehicles, Part 1: Convertors and Condition Monitoring. Energies, 2021, 14, 1795.	1.6	0
10	Transformer Oil Quality Assessment Using Random Forest with Feature Engineering. Energies, 2021, 14, 1809.	1.6	15
11	Study of spectral response of Transformer Oil under Low Electrical Discharge and Thermal Stress. , 2021, , .		3
12	The Gassing of Insulating Fluids. , 2021, , .		1
13	Instantaneous Electromagnetic Torque Components in Synchronous Motors Fed by Load-Commutated Inverters. Energies, 2021, 14, 3223.	1.6	7
14	Interpreting dissolved gases in transformer oil: A new method based on the analysis of labelled fault data. IET Generation, Transmission and Distribution, 2021, 15, 3032-3047.	1.4	11
15	Improved Monitoring and Diagnosis of Transformer Solid Insulation Using Pertinent Chemical Indicators. Energies, 2021, 14, 3977.	1.6	10
16	A Machine-Learning Approach to Identify the Influence of Temperature on FRA Measurements. Energies, 2021, 14, 5718.	1.6	3
17	Evolution of Countermeasures against Atmospheric Icing of Power Lines over the Past Four Decades and Their Applications into Field Operations. Energies, 2021, 14, 6291.	1.6	10
18	Modelling Surface Electric Discharge Propagation on Polluted Insulators under AC Voltage. Energies, 2021, 14, 6653.	1.6	2

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19	Pre-breakdown Phenomena and Influence of Aging Byproducts in Thermally Aged Low Pour Point Ester Fluids Under AC Stress. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1563-1570.	1.8	10
20	Identification and Application of Machine Learning Algorithms for Transformer Dissolved Gas Analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1828-1835.	1.8	34
21	Concept Design of a High-Voltage Electrostatic Sanitizer to Prevent Spread of COVID-19 Coronavirus. Energies, 2021, 14, 7808.	1.6	5
22	Accelerating Power Grid Monitoring with Flying Robots and Artificial Intelligence. IEEE Communications Standards Magazine, 2021, 5, 48-54.	3.6	12
23	Influence of Oil Quality on the Interpretation of Dissolved Gas Analysis Data. , 2021, , .		1
24	Decomposition Kinetics of Natural Ester and Mineral Oil from Thermogravimetric Analyses. , 2021, , .		2
25	Influence of Transformer Structures on the Frequency Response Analysis: A Laboratory Case Study. , 2021, , .		0
26	Monitoring the Sol and Gel in Natural Esters under Open Beaker Thermal Aging. , 2021, , .		4
27	A review on pre-breakdown phenomena in ester fluids: Prepared by the international study group of IEEE DEIS liquid dielectrics technical committee. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1546-1560.	1.8	52
28	Pretreatment of Fuller's earth with nitrogen. Heliyon, 2020, 6, e03643.	1.4	0
29	On Some Imperative IEEE Standards for Usage of Natural Ester Liquids in Transformers. IEEE Access, 2020, 8, 145446-145456.	2.6	10
30	Gassing Tendency of Fresh and Aged Mineral Oil and Ester Fluids under Electrical and Thermal Fault Conditions. Energies, 2020, 13, 3472.	1.6	10
31	Monitoring colloidal and dissolved decay particles in ester dielectric fluids. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1516-1524.	1.8	9
32	Lessons to Learn from Post-Installation Pollution Levels Assessment of Some Distribution Insulators. Energies, 2020, 13, 4064.	1.6	10
33	Special Issue "Selected Papers from the 2018 IEEE International Conference on High Voltage Engineering (ICHVE 2018)" Energies, 2020, 13, 4959.	1.6	0
34	Impact of free radicals on the electrostatic charging tendency of transformer oils. Electrical Engineering, 2020, 102, 1265-1274.	1.2	2
35	Changes in mechanical properties of impregnated Nomex papers 410 and 910 during accelerated aging. Polymer Testing, 2020, 83, 106358.	2.3	21
36	Influence of Aging on Oil Degradation and Gassing Tendency for Mineral oil and Synthetic Ester under Low Energy Discharge Electrical Faults. Energies, 2020, 13, 595.	1.6	10

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37	Review of Fiber Optic Diagnostic Techniques for Power Transformers. <i>Energies</i> , 2020, 13, 1789.	1.6	33
38	Temperature dependence of the pre-breakdown and breakdown phenomena in natural esters under AC stress. <i>IET Science, Measurement and Technology</i> , 2020, 14, 762-769.	0.9	5
39	Mineral Oil and Ester Based Oil/Paper Insulation Decaying Assessment by FTIR Measurements. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 615-624.	0.3	7
40	Influence of ageing on oil degradation and gassing tendency under high-energy electrical discharge faults for mineral oil and synthetic ester. <i>High Voltage</i> , 2020, 5, 731-738.	2.7	9
41	Temperature Distribution in a 245 kV AC XLPE Cable. , 2020, , .		3
42	Effect of injection barrier height on charge transport under bipolar injection. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019, 32, e2478.	1.2	1
43	Caracterization and Rheological Behaviour of a Used Insulating Oil and a Transformer Sludge. , 2019, , .		1
44	Technical committees. <i>IEEE Electrical Insulation Magazine</i> , 2019, 35, 46-48.	1.1	2
45	Condition monitoring of in-service oil-filled transformers: Case studies and experience. <i>IEEE Electrical Insulation Magazine</i> , 2019, 35, 33-42.	1.1	30
46	Preliminary Studies On Soluble and Colloidal Decomposition Products In Ester Filled Transformers. , 2019, , .		4
47	Modified Peek formula for calculating positive DC corona inception voltage on polluted insulator. <i>Electrical Engineering</i> , 2019, 101, 489-498.	1.2	4
48	Regeneration of Transformer Insulating Fluids Using Membrane Separation Technology. <i>Energies</i> , 2019, 12, 368.	1.6	22
49	Transformer condition assessment using fuzzy C-means clustering techniques. <i>IEEE Electrical Insulation Magazine</i> , 2019, 35, 47-55.	1.1	14
50	On Discharge Inception Voltage for Insulators under Non-uniform Field with AC Voltage. , 2019, , .		1
51	Power Transformer Condition Monitoring by 2FAL Content and CO ₂ /CO ratio " a Fuzzy Logic Approach. , 2019, , .		0
52	Alternative Dielectric Fluids for Transformer Insulation System: Progress, Challenges, and Future Prospects. <i>IEEE Access</i> , 2019, 7, 184552-184571.	2.6	106
53	Influence of cellulose paper on gassing tendency of transformer oil under electrical discharge. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019, 26, 1729-1737.	1.8	13
54	Aging characterization of electrical insulation papers impregnated with synthetic ester and mineral oil: Correlations between mechanical properties, depolymerization and some chemical markers. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 217-227.	1.8	34

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55	Monitoring power transformers oils deterioration using structured laser illumination planar imaging. Measurement: Journal of the International Measurement Confederation, 2018, 113, 38-45.	2.5	10
56	Engineering Dielectric Liquid Applications. Energies, 2018, 11, 2756.	1.6	4
57	Numerical Modelling of Ice-Covered Insulator Flashover: The Influence of Arc Velocity and Arc Propagation Criteria. Energies, 2018, 11, 2807.	1.6	2
58	Development of a New Bi-Arc Dynamic Numerical Model for Modeling AC Flashover Processes of EHV Ice-Covered Insulators. Energies, 2018, 11, 2792.	1.6	1
59	Rubber Bladder Puncture - A case Study. , 2018, , .		1
60	Comparative study of the degradation rate of new and regenerated mineral oils following electrical stress. IET Generation, Transmission and Distribution, 2018, 12, 5891-5897.	1.4	4
61	Power Transformer Diagnostics, Monitoring and Design Features. Energies, 2018, 11, 3248.	1.6	8
62	Frequency Response of Transformer Winding: A Case Study based on a Laboratory Model. , 2018, , .		2
63	Comparison of Different Residual Resistance Calculation Methods used in Predictive Insulator Flashover Models. , 2018, , .		1
64	Modeling the Insulation Paper Drying Process from Thermogravimetric Analyses. Energies, 2018, 11, 517.	1.6	9
65	Impact of Low Molecular Weight Acids on Oil Impregnated Paper Insulation Degradation. Energies, 2018, 11, 1465.	1.6	23
66	Combining and comparing various machine learning algorithms to improve dissolved gas analysis interpretation. IET Generation, Transmission and Distribution, 2018, 12, 3673-3679.	1.4	39
67	Numerically Optimizing the Distribution of the Infrared Radiative Energy on a Surface of a Thermoplastic Sheet Surface. Journal of Heat Transfer, 2018, 140, .	1.2	3
68	Assessing changes in thermally upgraded papers with different nitrogen contents under accelerated aging. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1829-1839.	1.8	27
69	Stability of mineral oil and oil ester mixtures under thermal ageing and electrical discharges. IET Generation, Transmission and Distribution, 2017, 11, 2384-2392.	1.4	33
70	Temperature dependence of methanol and the tensile strength of insulation paper: kinetics of the changes of mechanical properties during ageing. Cellulose, 2017, 24, 1031-1039.	2.4	28
71	Transformer oil reclamation by combining several strategies enhanced by the use of four adsorbents. IET Generation, Transmission and Distribution, 2017, 11, 2912-2920.	1.4	32
72	Suspended particles in oils under electrical discharge. , 2017, , .		1

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73	Thermal modelling of power transformer. , 2017, , .		10
74	Condition monitoring of oil-filled transformers using unsupervised classification techniques. , 2017, , .		1
75	Characterization of the operating periods of a power transformer by clustering the dissolved gas data. , 2017, , .		6
76	Review of Physicochemical-Based Diagnostic Techniques for Assessing Insulation Condition in Aged Transformers. Energies, 2016, 9, 367.	1.6	131
77	Electrical-Based Diagnostic Techniques for Assessing Insulation Condition in Aged Transformers. Energies, 2016, 9, 679.	1.6	76
78	Aging effect on physicochemical characteristics of insulating oil in service-aged transformers. , 2016, , .		3
79	Punctured rubber bladders detected by UV-vis spectroscopy. , 2016, , .		0
80	Empirical flashover model of EHV post insulators based on ISP parameter in cold environments. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 403-409.	1.8	12
81	Studying power transformers cooling effectiveness from computational fluid dynamics approach. , 2016, , .		0
82	Impact of various stresses on the streaming electrification of transformer oil. Journal of Electrostatics, 2016, 79, 25-32.	1.0	17
83	Potential of determining moisture content in mineral insulating oil by fourier transform infrared spectroscopy. IEEE Electrical Insulation Magazine, 2016, 32, 34-39.	1.1	23
84	Aging effect on oil cooling capacity of a non-guided disc windings power transformer. , 2015, , .		3
85	Measurement of the Relative Free Radical Content of Insulating Oils of Petroleum Origin. Energies, 2015, 8, 7690-7702.	1.6	9
86	Optimization of the electrical properties of epoxy-SiC composites for stress-grading application. , 2015, , .		8
87	Application of dynamic two-arc model to flashover of HVDC insulators subjected to cold climate regions. , 2015, , .		1
88	Impact of local overheating on conventional and hybrid insulations for power transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2543-2553.	1.8	22
89	Assessing insulating oil degradation by means of turbidity and UV/VIS spectrophotometry measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2653-2660.	1.8	77
90	Comparative studies of the stability of various fluids under electrical discharge and thermal stresses. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2491-2499.	1.8	30

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91	Relationships between methanol marker and mechanical performance of electrical insulation papers for power transformers under accelerated thermal aging. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 3625-3632.	1.8	54
92	Effect of magnitude of space charges on the electric field distribution in XLPE insulation in presence of water trees. , 2015, , .		0
93	Dynamic modeling of AC multiple ARCS of EHV post station insulators covered with ice. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2214-2223.	1.8	16
94	Neural network approach to separate aging and moisture from the dielectric response of oil impregnated paper insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2176-2184.	1.8	23
95	Impact of local overheating and electrical discharge on the streaming electrification of transformer oil. , 2014, , .		2
96	Electrical performance evaluation of EHV post insulators covered with ice under different air gap configurations. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 2619-2627.	1.8	11
97	Wavelet Packet Transform based Multi Resolution Analysis technique for classification of LC waveforms on polluted insulating surfaces. , 2014, , .		0
98	Comparative study between conventional and hybrid solid insulation systems. , 2014, , .		0
99	Studying the Electrostatic Charging Tendency of some environmentally friendly fluids in a spinning disk system. , 2014, , .		2
100	Electric field distributions to analyze possible manufacturing defects of a Preventive Autotransformer. , 2014, , .		0
101	Relationship between static electrification of transformer oils with turbidity and spectrophotometry measurements. International Journal of Electrical Power and Energy Systems, 2014, 54, 38-44.	3.3	12
102	Improved dynamic model of DC arc discharge on ice-covered post insulator surfaces. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 729-739.	1.8	29
103	Decay products in mineral oil: A comparative study between hybrid and conventional insulation systems. , 2014, , .		4
104	Relationship between some chemical markers and the mechanical properties of the solid insulation used in power transformers. , 2014, , .		6
105	A comparative study of impact of electrical stress and thermal aging on transformer oil. , 2014, , .		3
106	Application of a new dynamic numerical model to predict polluted insulator flashover voltage. , 2014, , .		5
107	Evaluation of distribution transformer banks in electric power systems. International Transactions on Electrical Energy Systems, 2013, 23, 364-379.	1.2	7
108	A rotor speed estimation algorithm in variable speed permanent magnet synchronous generator wind energy conversion system. International Journal of Robust and Nonlinear Control, 2013, 23, 1880-1890.	2.1	6

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109	The electrostatic charging tendency of some environmentally friendly insulating fluids. , 2013, , .		0
110	50 years in the development of insulating liquids. IEEE Electrical Insulation Magazine, 2013, 29, 13-25.	1.1	300
111	The gassing tendency of oil under corona discharge. , 2013, , .		0
112	Application of dynamic models to predict switching impulse withstand voltages of long air gaps. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 89-97.	1.8	17
113	Comparison between 2D and 3D modeling of an EHV post station insulator equipped with a grading ring. , 2013, , .		0
114	Equivalent surface conductivity of an ice-covered insulator during DC flashover. , 2013, , .		1
115	Comparative study of the electrostatic charging tendency between synthetic ester and mineral oil. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1598-1606.	1.8	23
116	Equivalent surface conductivity of ice accumulated on insulators during development of AC and DC flashovers arcs. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1789-1798.	1.8	20
117	On the Feasibility of Using Poles Computed from Frequency Domain Spectroscopy to Assess Oil Impregnated Paper Insulation Conditions. Energies, 2013, 6, 2204-2220.	1.6	34
118	Insulating oil decaying assessment by FTIR and UV-Vis spectrophotometry measurements. , 2013, , .		16
119	Influence of air gaps on the DC withstand voltage of ice-covered UHV insulators. , 2012, , .		9
120	On the impacts of ageing and moisture on dielectric response of oil impregnated paper insulation systems. , 2012, , .		10
121	Aged oils reclamation: Facts and arguments based on laboratory studies. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1583-1592.	1.8	42
122	Effect of power system harmonics on transformer loading capability and hot spot temperature. , 2012, , .		13
123	Frequency response analyses via rational function fitting. , 2012, , .		1
124	Study of parameters influencing the performance of connectors used for load and temperature tests on transformers. , 2012, , .		1
125	Stability of environmental friendly fluids under electrical and thermal stresses. , 2012, , .		3
126	Influence of aging byproducts on the gassing tendency of transformer oils. , 2012, , .		5

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127	A bibliographic analysis of transformer literature 2001-2010. , 2012, , .		4
128	Modeling and simulation of transformer loading capability and hot spot temperature under harmonic conditions. Electric Power Systems Research, 2012, 86, 68-75.	2.1	47
129	Environmental Cost of Transformer Losses for Industrial and Commercial Users of Transformers. , 2011, , .		5
130	Parameters affecting the static electrification of aged transformer oils. , 2011, , .		4
131	Comparative studies of the stabilities to oxidation and electrical discharge between ester fluids and transformer oils. , 2011, , .		12
132	Assessing oil paper insulation conditions by poles computed from Frequency Domain Spectroscopy. , 2011, , .		7
133	The gassing tendency of reclaimed oils. , 2011, , .		2
134	Effect of thermal transient on the polarization and depolarization current measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 513-520.	1.8	65
135	Characterization of aging transformer oil-pressboard insulation using some modern diagnostic techniques. European Transactions on Electrical Power, 2011, 21, 1110-1127.	1.0	64
136	The gassing tendency of various insulating fluids under electrical discharge. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1616-1625.	1.8	21
137	Decay products in the liquid insulation of power transformers. IET Electric Power Applications, 2010, 4, 177.	1.1	64
138	Low temperature and moisture effects on polarization and depolarization currents of oil-paper insulation. Electric Power Systems Research, 2010, 80, 91-97.	2.1	38
139	Polarization and Depolarization Current measurements of oil impregnated paper insulation system under thermal runaway. , 2010, , .		17
140	Experimental investigation of the process of Arc propagation over an ice surface. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 458-464.	1.8	29
141	Predictive dynamic model of the negative lightning discharge based on similarity with long laboratory sparks β•Part 2: validation. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 1562-1568.	1.8	6
142	Early stage detection of insulating oil decaying. , 2010, , .		7
143	The effect of polarity on dc arc development over an ice surface. Journal Physics D: Applied Physics, 2010, 43, 185202.	1.3	12
144	An environmentally friendly dissolved oxygen and moisture removal system for freely breathing transformers. IEEE Electrical Insulation Magazine, 2010, 26, 35-43.	1.1	24

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145	Sensorless control of PMSG in variable speed wind energy conversion systems. , 2010, , .		7
146	On the frequency domain dielectric response of oil-paper insulation at low temperatures. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 799-807.	1.8	116
147	Predictive dynamic model of the negative lightning discharge based on similarity with long laboratory sparks Part 1: physical process and modeling. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 1551-1561.	1.8	12
148	Intelligent agent-based system using dissolved gas analysis to detect incipient faults in power transformers. IEEE Electrical Insulation Magazine, 2010, 26, 27-40.	1.1	71
149	Neural network based wind speed sensorless MPPT controller for variable speed wind energy conversion systems. , 2010, , .		15
150	Static electrification assessment of transformer oils in the spinning disc system. , 2010, , .		2
151	Parameters affecting the electrical and thermal properties of transformer oils. , 2010, , .		5
152	Effect of electrical discharge on oil decaying process. , 2010, , .		6
153	Deriving an equivalent circuit of composite oil paper insulation for understanding the Frequency Domain Spectroscopic measurements. , 2009, , .		5
154	Characteristics of a positive dc arc formed over an ice surface. , 2009, , .		1
155	Low temperature and moisture effects on oil-paper insulation dielectric response in frequency Domain. , 2009, , .		6
156	Physicochemical aspects of gassing of insulating liquids under electrical stress. IEEE Electrical Insulation Magazine, 2009, 25, 43-51.	1.1	11
157	On-line monitoring of transformer via transfer function. , 2009, , .		20
158	Effect of oxygen on oil decay products formation. , 2009, , .		0
159	Modeling laboratory negative long spark discharges. , 2009, , .		0
160	On the stability of mineral insulating oils under electrical stress. , 2009, , .		4
161	Dielectric spectroscopy techniques as quality control tool: a feasibility study. IEEE Electrical Insulation Magazine, 2009, 25, 6-14.	1.1	53
162	An analytic model to simulate leakage current of a snow-covered insulator. European Transactions on Electrical Power, 2008, 18, 403-422.	1.0	1

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163	Modelling of the negative discharge in long air gaps under impulse voltages. Journal Physics D: Applied Physics, 2008, 41, 105210.	1.3	27
164	Study of Ultraviolet Emission and Visible Discharge along an Ice Surface. , 2008, , .		9
165	A Comparative Study of Positive and Negative Streamer Development along an Ice Surface. , 2008, , .		1
166	Study of discharge in air from the tip of an icicle. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 730-740.	1.8	35
167	On the states of water and its quantification in oil impregnated power equipments. , 2008, , .		0
168	The mechanism of gassing in power transformers. , 2008, , .		8
169	Ageing Behaviour of Mineral Oil and Ester Liquids: a Comparative Study. , 2008, , .		13
170	Effect of temperature, water content and aging on the dielectric response of oil-impregnated paper. , 2008, , .		5
171	Application of modern diagnostic techniques to assess the condition of oil and pressboard. , 2008, , .		2
172	Influence of the Relative Amount of Paper on Aged Mineral Oil Decay Products. , 2008, , .		2
173	Dielectric spectroscopic measurements on transformer oil-paper insulation under controlled laboratory conditions. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 1100-1111.	1.8	125
174	Effects of temperature and impurities on the DC conductivity of snow. IEEE Transactions on Dielectrics and Electrical Insulation, 2007, 14, 185-193.	1.8	7
175	Study of the Development of Positive Streamers Along an Ice Surface. IEEE Transactions on Dielectrics and Electrical Insulation, 2007, 14, 1436-1445.	1.8	25
176	Application of Dynamic Model to Flashover of Ice-covered Insulators. IEEE Transactions on Dielectrics and Electrical Insulation, 2007, 14, 1410-1417.	1.8	17
177	Modeling of the AC Arc Discharge on Snow-covered Insulators. IEEE Transactions on Dielectrics and Electrical Insulation, 2007, 14, 1390-1400.	1.8	13
178	Water in Oil-Filled, High-Voltage Equipment, Part I: States, Solubility, and Equilibrium in Insulating Materials. IEEE Electrical Insulation Magazine, 2007, 23, 15-27.	1.1	63
179	Water in oil-filled high-voltage equipment part II: water content as physicochemical tools for insulation condition diagnostic. IEEE Electrical Insulation Magazine, 2007, 23, 15-24.	1.1	34
180	Selection of Line Insulators With Respect to Ice and Snowâ€™Part II: Selection Methods and Mitigation Options. IEEE Transactions on Power Delivery, 2007, 22, 2297-2304.	2.9	32

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181	Aging of transformer insulating materials under selective conditions. European Transactions on Electrical Power, 2007, 17, 450-470.	1.0	48
182	Specific investigations to quantify heavy damage causes on loading resistor modules. IEEE Transactions on Dielectrics and Electrical Insulation, 2006, 13, 593-600.	1.8	4
183	Dynamics and modeling of AC arc on surface of ice. IEEE Transactions on Dielectrics and Electrical Insulation, 2006, 13, 1278-1285.	1.8	44
184	EXPERIMENTAL STUDIES OF ICE SURFACE DISCHARGE INCEPTION AND DEVELOPMENT. International Journal of Power and Energy Systems, 2006, 26, .	0.2	6
185	Experimental study and analysis of corona discharge parameters on an ice surface. Journal Physics D: Applied Physics, 2004, 37, 721-729.	1.3	38
186	Drying of transformer insulation using zeolite. IEEE Electrical Insulation Magazine, 2004, 20, 20-30.	1.1	21
187	Dynamic modeling of de arc discharge on ice surfaces. IEEE Transactions on Dielectrics and Electrical Insulation, 2003, 10, 463-474.	1.8	53
188	Challenge of mixed insulating liquids for use in high-voltage transformers.1. Investigation of mixed liquids. IEEE Electrical Insulation Magazine, 2002, 18, 18-31.	1.1	160
189	Challenge of mixed insulating liquids for use in high-voltage transformers. II. Investigations of mixed liquid impregnated paper insulation. IEEE Electrical Insulation Magazine, 2002, 18, 5-16.	1.1	74
190	Preliminary investigations for the retrofilling of perchlorethylene based fluid filled transformer. IEEE Transactions on Dielectrics and Electrical Insulation, 2002, 9, 97-103.	1.8	7
191	Fundamental investigations on some transformer liquids under various outdoor conditions. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 1040-1047.	1.8	52
192	Retrofilling conditions of high voltage transformers. IEEE Electrical Insulation Magazine, 2001, 17, 17-30.	1.1	52
193	Determination of the electrical properties of mixed transformer fluids under thermal ageing. , 1999, , .		1
194	Influence of insulating barriers on positive long air gaps in divergent field. , 1999, , .		3
195	Modelling a positive lightning downward leader to study its effects on engineering systems. IET Generation, Transmission and Distribution, 1998, 145, 395.	1.1	4
196	Induced effects on an overhead line due to nearby positive lightning downward leader. Electric Power Systems Research, 1998, 48, 105-119.	2.1	1
197	Predischage Models in Dielectric Liquids. Japanese Journal of Applied Physics, 1998, 37, 2540-2547.	0.8	23
198	A predictive model of the positive discharge in long air gaps under pure and oscillating impulse shapes. Journal Physics D: Applied Physics, 1997, 30, 1653-1667.	1.3	44

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199	A new proposal for calculation of the leader velocity based on energy considerations. Journal Physics D: Applied Physics, 1996, 29, 691-696.	1.3	17
200	A model for long air gap discharge using an equivalent electrical network. IEEE Transactions on Dielectrics and Electrical Insulation, 1996, 3, 273-282.	1.8	32
201	Modelling of the leader current with an equivalent electrical network. Journal Physics D: Applied Physics, 1995, 28, 305-313.	1.3	12
202	Modelling of the streamer in dielectric liquids with an equivalent electrical network. , 0, , .		1
203	Moisture uptake of mineral oil at different air relative humidities and temperatures. , 0, , .		5
204	Results on aging of cellulose paper under selective conditions. , 0, , .		15
205	Dynamic modeling of flashover process on insulator under atmospheric icing conditions. , 0, , .		4
206	Novel systems for the upgrading of power transformer insulations. , 0, , .		0
207	Contribution to the study of the appearance and development of corona discharges on a surface of ice. , 0, , .		2
208	Dynamic modeling of ac iced insulator flashover characteristics. , 0, , .		2
209	Modelling of AC arc process on an ice surface. , 0, , .		0
210	A simplified model of corona discharge development on an ice surface. , 0, , .		7
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