

Zhonglei Li

List of Publications by Year in descending order

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191
papers

2,156
citations

201385

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301761

39
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192
all docs

192
docs citations

192
times ranked

964
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymeric insulation for high-voltage dc extruded cables: challenges and development directions. IEEE Electrical Insulation Magazine, 2018, 34, 30-43.	1.1	91
2	Space charge behaviors of PP/POE/ZnO nanocomposites for HVDC cables. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3165-3174.	1.8	80
3	Promising functional graded materials for compact gaseous insulated switchgears/pipelines. High Voltage, 2020, 5, 231-240.	2.7	79
4	Trap Modulated Charge Carrier Transport in Polyethylene/Graphene Nanocomposites. Scientific Reports, 2017, 7, 4015.	1.6	77
5	Nonlinear conductivity and interface charge behaviors between LDPE and EPDM/SiC composite for HVDC cable accessory. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1566-1573.	1.8	74
6	Electrical tree degradation in high-voltage cable insulation: progress and challenges. High Voltage, 2020, 5, 353-364.	2.7	74
7	Effects of ambient temperature on surface charge and flashover of heat-shrinkable polymer under polarity reversal voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1190-1197.	1.8	72
8	Trap Distribution and Dielectric Breakdown of Isotactic Polypropylene/Propylene Based Elastomer With Improved Flexibility for DC Cable Insulation. IEEE Access, 2018, 6, 58645-58661.	2.6	57
9	Suppressing interface charge between LDPE and EPDM for HVDC cable accessory insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1331-1339.	1.8	51
10	Carrier mobility and trap distribution dependent flashover characteristics of epoxy resin. IET Generation, Transmission and Distribution, 2018, 12, 466-471.	1.4	51
11	Effect of voltage stabilizers on the space charge behavior of XLPE for HVDC cable application. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 34-42.	1.8	45
12	Effects of non-linear conductivity on charge trapping and de-trapping behaviours in epoxy/SiC composites under DC stress. IET Science, Measurement and Technology, 2018, 12, 83-89.	0.9	41
13	Effects of mechanical stretching on space charge behaviors of PP/POE blend for HVDC cables. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1438-1445.	1.8	39
14	Understanding Trap Effects on Electrical Treeing Phenomena in EPDM/POSS Composites. Scientific Reports, 2018, 8, 8481.	1.6	39
15	Mechanism of deep trap sites in epoxy/graphene nanocomposite using quantum chemical calculation. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1577-1580.	1.8	39
16	Mechanical stress distribution and risk assessment of 110kV GIS insulator considering Al ₂ O ₃ settlement. High Voltage, 2019, 4, 65-71.	2.7	39
17	Space charge accumulation in double-layer dielectric systems—measurement methods and quantum chemical calculations. IEEE Electrical Insulation Magazine, 2019, 35, 36-46.	1.1	37
18	Effects of AC and pulse voltage combination on surface charge accumulation and decay of epoxy resin. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2368-2376.	1.8	36

#	ARTICLE	IF	CITATIONS
19	Temperature-dependent DC conductivity and space charge distribution of XLPE/GO nanocomposites for HVDC cable insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 418-426.	1.8	36
20	Improved ampacity of buried HVDC cable with high thermal conductivity LDPE/BN insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2667-2676.	1.8	34
21	Effects of mechanical stress on treeing growth characteristics in HTV silicone rubber. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1547-1556.	1.8	33
22	Effects of high temperature and high electric field on the space charge behavior in epoxy resin for power modules. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 882-890.	1.8	33
23	Surface Layer Fluorination-Modulated Space Charge Behaviors in HVDC Cable Accessory. Polymers, 2018, 10, 500.	2.0	32
24	Dielectric relaxation and trap-modulated DC breakdown of polypropylene blend insulation. Polymer, 2019, 185, 121935.	1.8	32
25	Effects of ZnO magnetron sputtering on surface charge and flashover voltage of oil-impregnated paper. High Voltage, 2019, 4, 308-315.	2.7	32
26	Effects of nano-SiO ₂ particles on surface tracking characteristics of silicone rubber composites. Applied Physics Letters, 2014, 105, 102905.	1.5	30
27	Surface charge coupling behavior of fluorinated polyimide film under DC and pulse voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 567-573.	1.8	27
28	Effect of graphene oxide particles on space charge accumulation in LDPE/GO nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1479-1486.	1.8	26
29	Multistep and Multiscale Electron Trapping for High-Efficiency Modulation of Electrical Degradation in Polymer Dielectrics. Journal of Physical Chemistry C, 2019, 123, 7045-7053.	1.5	26
30	Trap distribution of electron beam irradiated epoxy resin under repetitive pulse voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3869-3877.	1.8	24
31	Effects of direct fluorination on space charge accumulation in HTV silicone rubber. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2353-2360.	1.8	22
32	Surface charge and flashover voltage of EVA/CB nanocomposite under mechanical stresses. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3734-3741.	1.8	21
33	Temperature-dependent surface charge behavior of polypropylene film under DC and pulse voltages. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 774-783.	1.8	21
34	Dynamic behavior of surface charge on gamma-ray irradiated polybutylene naphthalate. Polymer Degradation and Stability, 2009, 94, 139-143.	2.7	20
35	Numerical simulation on the surface charge accumulation process of epoxy insulator under needle-plane corona discharge in air. IET Science, Measurement and Technology, 2018, 12, 9-16.	0.9	20
36	Electrical and mechanical ageing behaviors of used heat-shrinkable insulation tubes. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1875-1881.	1.8	19

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37	Electrical Tree Initiation and Growth in Silicone Rubber under Combined DC-Pulse Voltage. <i>Energies</i> , 2018, 11, 764.	1.6	19
38	Improved Breakdown Strength of Polypropylene Film by Polycyclic Compounds Addition for Power Capacitors. <i>Materials</i> , 2021, 14, 1185.	1.3	19
39	The calculation of circulating current for the single-core cables in Smart Grid. , 2012, , .		18
40	Temperature dependent surface charge and discharge behavior of epoxy/AlN nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 1300-1307.	1.8	18
41	Improved DC Conductivity and Space Charge Characteristics of XLPE for HVDC Cable Application: Effect of Voltage Stabilizers. <i>IEEE Access</i> , 2019, 7, 66576-66583.	2.6	18
42	Nanoscale-trap-modulated electrical degradation in polymer dielectric composites using antioxidants as voltage stabilizers. <i>Composites Part B: Engineering</i> , 2019, 178, 107434.	5.9	17
43	Surface FGM Insulator Based on BaTiO ₃ Magnetron Sputtering for Electric Field Grading of AC Gas Insulated Power Apparatus. <i>IEEE Access</i> , 2019, 7, 62681-62688.	2.6	17
44	Inhibition Effect of Graphene on Space Charge Injection and Accumulation in Low-Density Polyethylene. <i>Nanomaterials</i> , 2018, 8, 956.	1.9	16
45	Surface Charge Transport Characteristics of ZnO/Silicone Rubber Composites Under Impulse Superimposed on DC Voltage. <i>IEEE Access</i> , 2019, 7, 3008-3017.	2.6	16
46	Molecular Structure Modulated Trap Distribution and Carrier Migration in Fluorinated Epoxy Resin. <i>Molecules</i> , 2020, 25, 3071.	1.7	15
47	An investigation on discharge fault in buffer layer of 220kV XLPE AC cable. <i>IET Science, Measurement and Technology</i> , 2021, 15, 508-516.	0.9	15
48	Improved space charge transport model in bi-layer dielectrics considering carrier dynamic equilibrium. <i>High Voltage</i> , 2020, 5, 176-183.	2.7	15
49	Improved carrier mobility dependent surface charge and flashover voltage of polypropylene film under DC and pulse voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 1014-1021.	1.8	14
50	Investigation of charge transport and breakdown properties in XLPE/GO nanocomposites part 1: The role of functionalized GO quantum wells. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020, 27, 1204-1212.	1.8	14
51	Discharge Breakdown Characteristics With Fluorinated Polyimide Films in High-Temperature Superconducting Cable Insulation. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-5.	1.1	13
52	Investigation of electrification and breakdown strength about transformer oil/pressboard. <i>IET Electric Power Applications</i> , 2017, 11, 386-392.	1.1	13
53	Electric Field Regulation of Insulator Interface by FGM With Conductivity for Superconducting-GIL. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.1	13
54	Effect of gamma-ray irradiation on surface charge behavior of polybutylene naphthalate. <i>Journal of Electrostatics</i> , 2009, 67, 22-26.	1.0	12

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55	Trap Distribution and Flashover Characteristics of Carbon-Black-Filled EPDM in Low Temperature. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	12
56	Temperature-Dependent Surface Charge and Flashover Behaviors of Oil-Paper Insulation Under Impulse With Superimposed DC Voltage. IEEE Access, 2018, 6, 63087-63093.	2.6	12
57	Deep trap sites suppressing space charge injection in polycyclic aromatic compounds doped XLPE composite. IET Nanodielectrics, 2020, 3, 10-13.	2.0	12
58	Improved Electric Field Distribution Within Bushing Insulation by EP/GO Nanocomposites With Reduced Temperature Coefficient of Conductivity. IEEE Access, 2020, 8, 176864-176872.	2.6	12
59	Crystallization Morphology-Dependent Breakdown Strength of Polypropylene Films for Converter Valve Capacitor. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 964-971.	1.8	12
60	Molecule diffusion behaviours of waterproof sealants into silicone rubber insulation for submarine cable joint based on molecular dynamics simulations. High Voltage, 2021, 6, 230-241.	2.7	12
61	Tracking and erosion resistance of silicone rubber/BN nanocomposites under DC voltage. , 2013, , .		11
62	Evaluation of high-voltage AC cable grounding systems based on the real-time monitoring and theoretical calculation of grounding currents. High Voltage, 2018, 3, 38-43.	2.7	11
63	Electronic and optical properties of C-doped BN nanotubes by adsorption of typical decomposition products of C ₃ F ₇ CN gas. Applied Surface Science, 2019, 491, 698-706.	3.1	11
64	Investigation of charge transport and breakdown properties in XLPE/GO nanocomposites part 2: Effect of polarity reversal. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1213-1221.	1.8	11
65	Coupling Effect of Molecular Chain Displacement and Carrier Trap Characteristics on DC Breakdown of HDPE/LDPE Blend Insulation. Polymers, 2020, 12, 589.	2.0	11
66	Interface charge behaviors between LDPE and EPDM filled with carbon black nanoparticles. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3696-3703.	1.8	10
67	Effects of multiple parameters on static electrification and breakdown strength of transformer oil. IET Science, Measurement and Technology, 2016, 10, 597-601.	0.9	9
68	Temperature-dependent surface charge and discharge behaviour of converter transformer oil-paper insulation under DC voltage. IET Science, Measurement and Technology, 2019, 13, 29-34.	0.9	9
69	Inhibition Effect of Graphene Nanoplatelets on Electrical Degradation in Silicone Rubber. Polymers, 2019, 11, 968.	2.0	9
70	Improving the Electric Field Distribution in Stress Cone of HTS DC Cable Terminals by Nonlinear Conductive Epoxy/ZnO Composites. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	9
71	Effect of Crystalline Morphology on Electrical Tree Growth Characteristics of High-Density and Low-Density Polyethylene Blend Insulation. IEEE Access, 2020, 8, 114413-114421.	2.6	9
72	Electrical Treeing Characteristics in Epoxy under Electro-magnetic Coupled Field. Journal of Physics: Conference Series, 2020, 1559, 012089.	0.3	8

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73	Effects of Magnetic Field on Partial Discharge in Epoxy Resin for Superconducting Coil Insulation. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-3.	1.1	7
74	Electrical Field Distribution in ± 600 kV Converter Transformer Bushing Core with the Application of Epoxy Resin with Nonlinear Conductivity. , 2018, , .		6
75	Numerical Investigation on Collision of Pollution Particles on Outdoor Insulators. IEEE Access, 2019, 7, 56974-56985.	2.6	6
76	Effect of Polycyclic Compounds Fillers on Electrical Treeing Characteristics in XLPE with DC-Impulse Voltage. Energies, 2019, 12, 2767.	1.6	6
77	Effect of micro-H ₂ O and micro-O ₂ on the decomposition characteristics of insulating medium C ₃ F ₇ CN gas using molecular dynamics and transition state method. Journal of Molecular Modeling, 2020, 26, 252.	0.8	6
78	Effects of Pre-Crosslinking on Space Charge and Breakdown Characteristics of XLPE Cable Insulation. Energies, 2022, 15, 2360.	1.6	6
79	Non-Linear Conductivity Epoxy/SiC Composites for Emerging Power Module Packaging: Fabrication, Characterization and Application. Materials, 2020, 13, 3278.	1.3	5
80	Study on Improving Interface Performance of HVDC Composite Insulators by Plasma Etching. Coatings, 2020, 10, 1036.	1.2	5
81	Polycyclic Compounds Affecting Electrical Tree Growth in Polypropylene Under Ambient Temperature. IEEE Access, 2020, 8, 8886-8898.	2.6	5
82	Effect of polarity reversal voltage on charge accumulation and carrier mobility in silicone rubber/silicon carbide composites. IET Science, Measurement and Technology, 2021, 15, 184-192.	0.9	5
83	Learning from Students: Online Contrastive Distillation Network for General Continual Learning. , 2022, , .		5
84	Effects of low temperature on treeing phenomena of silicone rubber. , 2013, , .		4
85	Electrical Tree Characteristics in Polypropylene Under Impulse Superimposed DC Voltage in LN ₂ . IEEE Transactions on Applied Superconductivity, 2019, 29, 1-3.	1.1	4
86	Effects of Antioxidant Additives on Electrical Tree Characteristics in EPDM Under Liquid Nitrogen. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	4
87	Effects of High Magnetic Field on Partial Discharge and Flashover Behavior of Epoxy Resin. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.1	4
88	Effects of Temperature Gradient on Electrical Tree Initiation and Breakdown Phenomenon in XLPE Under Harmonic Superimposed DC Voltage. IEEE Access, 2021, 9, 7586-7596.	2.6	4
89	Reduction of vibration noise for amorphous metal alloy core distribution transformer. Transactions of Tianjin University, 2015, 21, 289-298.	3.3	3
90	Electrical Tree in Epoxy Resin under Combined DC-harmonic Voltage. , 2018, , .		3

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91	Simulation of Interface Charge Behaviors in HVDC Cable Accessory Based on Bipolar Carrier Transportation Model. , 2018, , .		3
92	Effect of Fullerene Nanoparticle on Tuning Trap Level Distribution of Fullerene/Polyethylene Nanocomposites. , 2019, , .		3
93	Trap Level Characteristics and DC Breakdown Performance of Isotactic/Syndiotactic/Atactic Polypropylene Blend Insulation. IEEE Access, 2020, 8, 220840-220847.	2.6	3
94	Effect of sPP Content on Electrical Tree Growth Characteristics in PP-Blended Cable Insulation. Materials, 2020, 13, 5360.	1.3	3
95	Non-Intrusive Measurement of Transient Electric Field Distribution Under AC and Impulse Voltages. IEEE Sensors Journal, 2020, 20, 10898-10902.	2.4	3
96	Electric-Field- and Temperature-Dependent Nonlinear Conductivity of SiC/Epoxy Resin Composites at Cryogenic Temperature. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-6.	1.1	3
97	Effect of Electrical Aging On PPLP Insulation Characteristics in LN ₂ . IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.1	3
98	Chaos existence in surface discharge of tracking test. Transactions of Tianjin University, 2009, 15, 168-172.	3.3	2
99	Surface charge accumulate and decay of direct-fluorinated RTV silicone rubber. , 2013, , .		2
100	Effects of low temperature on dielectric properties of ethylene-propylene-diene terpolymer filled with carbon black nanoparticles. , 2015, , .		2
101	Effects of high temperature and pulse voltage on treeing process in silicone rubber. , 2016, , .		2
102	Effect of direct fluorination on partial discharge characteristics of polyimide film used as magnet wire insulation of generator. IET Generation, Transmission and Distribution, 2016, 10, 2251-2258.	1.4	2
103	Interface charge distribution between LDPE and carbon black filled EPDM. , 2016, , .		2
104	Effects of nonlinear conductivity on interface charge in HVDC cable accessories. , 2017, , .		2
105	Surface Charge and Flashover Voltage of Fluorinated Polypropylene Film under DC and Pulse Voltages. , 2018, , .		2
106	Surface Charge and Flashover Voltage of Fluorinated Polypropylene Film under DC and Pulse Voltages. , 2018, , .		2
107	Simulation of Interface Charge Behaviors in HVDC Cable Accessory Based on Bipolar Carrier Transportation Model. , 2018, , .		2
108	Surface discharge behaviors of Polypropylene/AlN nanocomposites in cryogenic environment. , 2018, , .		2

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109	Application of E-Field Adaptive Insulator for DC GHe-Insulated Pipeline. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-3.	1.1	2
110	Electric Field Optimization of 1MV DC-GIL Spacer With Surface Conductivity Gradient for ITER NBI. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.1	2
111	Effect of Crystalline Morphology on DC-Prestressed Breakdown Characteristics of PP-based Cable Insulation. , 2021, , .		2
112	Mechanical Stress Distribution and Reliability Analysis of GIL Tri-post Insulator. , 2021, , .		2
113	Dynamic Interface Charge Behaviors in HVDC Cable Terminal Considering Carrier Dynamic Equilibrium. IEEJ Transactions on Fundamentals and Materials, 2021, 141, 567-573.	0.2	2
114	Contact Resistance and Temperature Distribution of Insulation Piercing Connector with Various Operation Conditions. , 2020, , .		2
115	Effects of Magnetic Field on Surface Flashover of Polyimide Film for Superconducting Magnet Insulation. , 2020, , .		2
116	Dielectric and Electrical Insulation Properties of PTFE/PP for HTS Power Apparatus Application. , 2020, , .		2
117	Effects of Magnetic Field on Surface Flashover Behavior of Epoxy Resin for High-Field Magnets. , 2020, , .		2
118	DC Breakdown Modulated by Molecular Chains Movements and Trap Characteristics of HDPE/LDPE Blend Insulation. , 2020, , .		2
119	Temperature dependence of surface breakdown on printed circuit board. , 0, , .		1
120	Surface charge measurement of gamma-rays irradiated polymer insulating materials. , 2007, , .		1
121	Effect of suspending bubbles on tracking failure of oil-impregnated pressboard. , 2013, , .		1
122	Effect of external magnetic fields on the breakdown and partial discharge characteristics of vegetable oil. , 2015, , .		1
123	Effects of magnetic field on treeing process in silicone rubber considering pulse voltage. , 2016, , .		1
124	Effects of high thermal conductivity on power cable ampacity with LDPE/BN composites. , 2017, , .		1
125	Trap dependent interface charge behaviors of fluorinated HVDC cable accessories. , 2017, , .		1
126	Coupling Effects of Ambient Temperature and Filler Contents on Surface Charge and Discharge Behavior of Epoxy/AlN Nanocomposites. , 2018, , .		1

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127	Suppressing Space Charge in LDPE/GO Nanocomposites for HVDC Cable Application. , 2018, , .		1
128	Electrical tree in HTV silicone rubber under mechanical stress. , 2018, , .		1
129	Surface Functional Graded Material Considered for DC Gas-Insulated Pipeline. , 2019, , .		1
130	Surface Discharge Property of Polypropylene/BN Nanocomposite for HTS Apparatus Application. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	1
131	The Improvement of Flashover Characteristics with Field Grading CCTO Coating for GIL Spacer. , 2021, , .		1
132	Improved Dielectric Properties of Polypropylene Films Based on Aromatic Compounds. , 2021, , .		1
133	Effect of Harmonic Voltage On Partial Discharge Properties of LN ₂ /PPLP Insulation for HTS DC Cable. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.1	1
134	Acoustic Characteristic of Surface Discharge for Hydrophobicity Evaluation of HVDC Silicone Rubber Insulator. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 121-122.	0.2	1
135	Effects of Atmospheric Pressure on Insulation Breakdown of Gamma-ray Irradiated Polyphenylene Oxide. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 271-276.	0.2	1
136	Conduction and Charge Transport Characteristics of Silicone Rubber Composites with Nonlinear Conductivity. , 2021, , 215-242.		1
137	Dielectric Properties of Epoxy-based Nanocomposite Filled with Fullerene C60. , 2020, , .		1
138	Effect of sPP Content on Electrical Tree Growth Characteristics in iPP/sPP Blend Cable Insulation. , 2020, , .		1
139	Bilayer PI/BaTiO ₃ -P(VDF-TrFE-CFE) composites with high discharge energy density. , 2020, , .		1
140	Electrical Tree Characteristics of Isotactic/Syndiotactic Polypropylene Blend Insulation under Repetitive Impulse Voltage. , 2020, , .		1
141	Design and Optimization of 1000 kV DC GIL Post Spacer with Surface Conductivity Gradient for ITER Neutral Beam Injector. , 2020, , .		1
142	Effects of Mechanical Stress on Cohesive Energy and Energy Level Distribution of Bisphenol-A Epoxy Resin. , 2021, , .		1
143	Surface Charge Accumulation on PTFE under Magnetic Field. , 2007, , .		0
144	Chaos analysis of discharge current based on tracking test of phenolic resin. Transactions of Tianjin University, 2009, 15, 1-6.	3.3	0

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145	A study of mechanical and electrical properties of aged, heat-shrinkable tubes. , 2013, , .		0
146	Surface charge decay of direct-fluorinated RTV silicone rubber/SiO ₂ /nanocomposites. , 2014, , .		0
147	Effect of magnetic field on tree characteristics in silicone rubber. , 2015, , .		0
148	Interface charge accumulation and decay of multi-layer oil-paper insulation under DC and polarity reversal voltages. , 2016, , .		0
149	Space charge accumulation characteristics in ethylene-vinyl acetate copolymer filled with ZnO nanoparticles. , 2016, , .		0
150	Surface charge dynamic characteristics of EVA/CB nanocomposite under mechanical stretching. , 2017, , .		0
151	Study of electrification and breakdown about transformer oil/pressboard. , 2017, , .		0
152	Effect of Field-dependent Conductivity on Surface Charge Decay in ZnO/Silicone Rubber Composites. , 2018, , .		0
153	Breakdown Characteristics of Direct-fluorinated Polyimide Film in LN ₂ under Combined DC-Pulse Voltage. , 2018, , .		0
154	Improving Electric Field Distribution in HTS DC Cable Terminals by Nonlinear Conductive Epoxy/ZnO Composites. , 2018, , .		0
155	Effects of ZnO Contents on Trap Distribution of Epoxy Composites at Cryogenic Temperature. , 2018, , .		0
156	Mechanical Stretching Dependence of Electrical Treeing Phenomenon in EPDM. , 2018, , .		0
157	Coupling Effects of Ambient Temperature and Filler Contents on Surface Charge and Discharge Behavior of Epoxy/AlN Nanocomposites. , 2018, , .		0
158	Mechanical Stretching Dependence of Electrical Treeing Phenomenon in EPDM. , 2018, , .		0
159	Effects of Temperature Variation on Dielectric Properties of EPDM/SiC Composites for HTS Power Leading Insulation. , 2018, , .		0
160	Influence of Antioxidants on Electrical Tree Properties in EPDM under Liquid Nitrogen. , 2018, , .		0
161	Flashover Voltage of Epoxy/Al ₂ O ₃ /ZnO Composites in Liquid Nitrogen. , 2018, , .		0
162	Suppressing Space Charge in LDPE/GO Nanocomposites for HVDC Cable Application. , 2018, , .		0

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163	Temperature Dependent Carrier Mobility of Epoxy/BN/Graphene Composites for HTS Cable Joint. , 2018, , .		0
164	Partial Discharge Behaviors of Low Dielectric Loss PTFE/PP Composite Insulation in LN<inf>2</inf>. , 2018, , .		0
165	Simulation on surface charge accumulation process of epoxy insulator in air. , 2018, , .		0
166	Conductivity and Surface Charge Properties of HTV SiR/SiC Composites under Impulse Superimposed on DC Voltage at Different Temperatures. , 2019, , .		0
167	Effect of β -Spherulite on Electrical Tree Characteristics of Isotactic Polypropylene Insulation. , 2021, , .		0
168	Surface Charge Accumulation on a Real Size Epoxy Spacer in Various Gas Atmospheres under DC Voltage. , 2021, , .		0
169	Effects of Fullerene C60 on the Dielectric Strength of Epoxy Resin at Elevated Temperature. , 2021, , .		0
170	Electrical Tree Characteristics in Graphene/SiR Nanocomposites under Temperature Gradient. , 2021, , .		0
171	Effects of Al₂O₃ Particles on Surface Charge of Epoxy Nanocomposites. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 224-230.	0.2	0
172	Effect of sPP Content on Dielectric Relaxation and Trap Level Characteristics of PP blend insulation. , 2020, , .		0
173	Trap Distribution and Space Charge Behavior of PP/ULDPE/ Radical Scavenger Composites for HVDC Cable Insulation. , 2020, , .		0
174	Characterization of Electrical Treeing in XLPE versus Temperature Gradients. , 2020, , .		0
175	Interfacial E-field Regulating Insulator for DC Gas-solid Insulating System. , 2020, , .		0
176	Electric Field Distribution of \pm 800kV Valve Side Bushing Capacitor Core Influenced by Temperature Gradient. , 2020, , .		0
177	Electric Ageing and Breakdown Phenomenon in Polypropylene Under Complex DC Operating Condition. , 2021, , 173-214.		0
178	The Insulating Properties of Polypropylene Blends Modified by ULDPE and Graphene for HVDC Cables. , 2021, , 97-126.		0
179	Partial Discharge Characteristics in Liquid Nitrogen /Polypropylene-Laminated-Paper Insulation System under an DC Superimposed AC Voltage for HTS Cable. , 2020, , .		0
180	Research Progress of Quantum Chemical Calculation for Mechanisms in Charge Transportation and Insulation Failure. , 2020, , .		0

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181	Diffusion Behavior of Waterproof Glue into Silicone Rubber Insulation of Submarine Cable Joints Based on Molecular Dynamics Simulation. , 2020, , .		0
182	Research on Defect Detection of Insulation Piercing Connector (IPC) Based on UHF Partial Discharge. , 2020, , .		0
183	Improved Temperature Dependence of Electrical Properties of XLPE/GO Nanocomposites for HVDC Cable Insulation. , 2020, , .		0
184	Flashover Improvement and Field Control of Insulator with Surface ĩf-FGM for DC GIL. , 2020, , .		0
185	Space Charge Properties of SiC/SiR Composites with Nonlinear Conductivity at Different Temperatures. , 2020, , .		0
186	Improved Electric Field Distribution of the Valve Side Bushing Impregnated with Epoxy/GO Nanocomposite. , 2020, , .		0
187	Simulation Research on Ultrasound Detection of Insulation Defects in SCFCL Power Leading. , 2020, , .		0
188	Effect of DC Superimposed AC Voltage on Partial Discharge Characteristics of LN2/PPLP Insulation System. , 2020, , .		0
189	Electric Field Distribution within 220 kV Outdoor Cable Terminals Considering the Solidification of Silicone Oil under Cold Conditions. , 2021, , .		0
190	Simulation of Dynamic Interface Charge Behaviors in HVDC Cable Terminal. , 2021, , .		0
191	Effect of Field-dependent Conductivity on Surface Charge Decay in ZnO/Silicone Rubber Composites. , 2018, , .		0