

# Boxue Du

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

362 papers	3,711 citations	29 h-index	40 g-index
581 ext. papers	5,231 ext. citations	2.2 avg, IF	6.36 L-index

#	Paper	IF	Citations
362	Polarity Reversal and Over Voltage Affecting Discharge Inception of Tri-post Insulator in 1 800 kV GIL. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	4
361	Morphological Feature Analysis of Electrical Tree Growth in Epoxy Resin under Tensile and Compressive Stress. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	2
360	Breakdown Performance of Polypropylene and Its Long-chain Branched Blending for Metalized Film Capacitors. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	1
359	Effects of Pre-Crosslinking on Space Charge and Breakdown Characteristics of XLPE Cable Insulation. <i>Energies</i> , <b>2022</b> , 15, 2360	3.1	0
358	Breakdown strength improvement of polypropylene by introducing long-chain branched structures for film capacitors. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 245501	3	0
357	Electric Field Relaxation of HVDC GIL Spacer with Surface Conductivity Gradient Material (ESFGM) Using Electrospinning Technology. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	2
356	Effects of High Magnetic Field on Partial Discharge and Dielectric Breakdown Behavior of Silicone Rubber. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	0
355	Basin-type Spacer for DC-GIL Part II: Surface Charge and Electric Field Regulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	2
354	Improved Conductivity and Breakdown Performance of Polypropylene Film by Parylene Blending for Power Capacitor. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	0
353	Basin-type Spacer for DC-GIL Part I: Surface Charging and Discharging Behaviours. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	1
352	Breakdown Strength and Energy Density Improvement of Polypropylene by Parylene Deposition for Film Capacitor. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	0
351	Charge transport behavior in gamma-ray irradiated poly(ethylene terephthalate) estimated by surface potential decay. <i>High Voltage</i> , <b>2021</b> , 6, 435-447	4.1	3
350	Effects of Gradient Magnetic Field on Charge Behavior and Electrical Tree Growth in Epoxy Resin. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1686-1693	2.3	1
349	Temperature Gradient Affecting Electrical Tree in Silicone Rubber under Impulse Superimposed on DC Voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1480-1487	2.3	0
348	High-temperature Breakdown Performance Improvement of Polypropylene Films Based on Micromorphology Control. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1547-1554	2.3	2
347	Improved Energy Density and Charge Discharge Efficiency of Polypropylene Capacitor Film Based on Surface Grafting. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1539-1546	2.3	5
346	Temperature-dependent electric field distribution in 800 kV valve-side bushing insulation for a converter transformer. <i>High Voltage</i> , <b>2021</b> , 6, 106-115	4.1	6

- 345 Promising Functional Graded Materials for Compact Gaseous Insulated Pipelines **2021**, 525-547
- 344 Electric Field Regulation Along Gas/Solid Interface in HVDC GIL with Nonlinear Conductivity Material **2021**, 433-465
- 343 Surface Molecular Structure Modified Epoxy Resin Materials for HVDC GIL Spacer **2021**, 467-498
- 342 Surface Functionally Graded Insulator for High Voltage Gas Insulated Apparatus **2021**, 549-568 1
- 341 Electric Ageing and Breakdown Phenomenon in Polypropylene Under Complex DC Operating Condition **2021**, 173-214
- 340 Improvement of Dielectric Properties of Polypropylene Film for HVDC Metallized Film Capacitors **2021**, 627-651 1
- 339 Effect of Temperature and Mechanical Stress on Charge Transport and Ageing Properties of EPDM for Cable Accessories **2021**, 271-292
- 338 Conduction and Charge Transport Characteristics of Silicone Rubber Composites with Nonlinear Conductivity **2021**, 215-242 1
- 337 Insulation Design of Superconducting Gas Insulated Transmission Line **2021**, 587-604 1
- 336 Effect of Mechanical Stress on Space Charge Behaviors of PP Insulation Materials **2021**, 127-149
- 335 Mechanical Reliability of Large-Scaled Epoxy Insulator in GIS **2021**, 569-585
- 334 The Insulating Properties of Polypropylene Blends Modified by ULDPE and Graphene for HVDC Cables **2021**, 97-126
- 333 Theoretical Model and Suppressing Method of Interface Charge Accumulation in HVDC Cable Accessory: A Review **2021**, 293-308
- 332 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 4.1 3
- 331 An investigation on discharge fault in buffer layer of 220kV XLPE AC cable. *IET Science, Measurement and Technology*, **2021**, 15, 508-516 1.5 5
- 330 Improved Breakdown Strength of Polypropylene Film by Polycyclic Compounds Addition for Power Capacitors. *Materials*, **2021**, 14, 3.5 4
- 329 Crystallization Morphology-Dependent Breakdown Strength of Polypropylene Films for Converter Valve Capacitor. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2021**, 28, 964-971 2.3 1
- 328 Effect of Mechanical Stretching on Nonlinear Conductivity and Dielectrics Breakdown Strength of SiR/SiC Composites. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2021**, 28, 996-1004 2.3 2

327	The performance of nanoporous phosphorene as membranes for separating three typical C3F7CN insulating gas decomposition products. <i>Applied Surface Science</i> , <b>2021</b> , 537, 147975	6.7	3
326	Effect of polarity-reversal voltage on charge accumulation and carrier mobility in silicone rubber/silicon carbide composites. <i>IET Science, Measurement and Technology</i> , <b>2021</b> , 15, 184-192	1.5	1
325	Feature extraction and classification of surface discharges on an ice-covered insulator string during AC flashover using gray-level co-occurrence matrix. <i>Scientific Reports</i> , <b>2021</b> , 11, 2542	4.9	6
324	Effects of Hindered Phenolic Antioxidants on Space Charge and Breakdown Properties of Polypropylene. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 124-132	2.3	3
323	Effect of Crystallization Regulation on the Breakdown Strength of Metallized Polypropylene Film Capacitors. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 175-182	2.3	8
322	Gas Convection Affecting Surface Charge and Electric Field Distribution around Tri-post Insulators in 800 kV GIL. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1372-1379	2.3	10
321	High-Temperature Performance of Dielectric Breakdown in BOPP Capacitor Film Based on Surface Grafting. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1264-1272	2.3	1
320	Dielectric Property Improvement of Polypropylene Films Doped with POSS for HVDC Polymer Film Capacitors. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1308-1316	2.3	5
319	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1291-1299	2.3	2
318	Graphene Nanoplatelets and Temperature Gradient Affecting Electrical Tree in Graphene/SiR Nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1255-1263	2.3	0
317	BNNS Encapsulated TiO <sub>2</sub> Nanofillers Endow Polypropylene Cable Insulation with Enhanced Dielectric Performance. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1238-1246	2.3	16
316	Dynamic Interface Charge Behaviors in HVDC Cable Terminal Considering Carrier Dynamic Equilibrium. <i>IEEE Transactions on Fundamentals and Materials</i> , <b>2021</b> , 141, 567-573	0.2	0
315	Effects of High Magnetic Field on Partial Discharge and Flashover Behavior of Epoxy Resin. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-4	1.8	1
314	Effect of Harmonic Voltage On Partial Discharge Properties of LN <sub>2</sub> /PPLP Insulation for HTS DC Cable. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-4	1.8	
313	Electric Field Regulation Along Post Insulator in DC-GIL for ITER Neutral Beam Injector. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-4	1.8	
312	Effects of Temperature Gradient on Electrical Tree Initiation and Breakdown Phenomenon in XLPE Under Harmonic Superimposed DC Voltage. <i>IEEE Access</i> , <b>2021</b> , 9, 7586-7596	3.5	1
311	Oil and Paper Insulation for DC Converter Transformer <b>2021</b> , 537-565		
310	Effects of Magnetic field on Partial Discharge in Epoxy Resin for Superconducting Coil Insulation. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 1-1	1.8	2

309	Dielectric and Energy Storage Properties of Polypropylene by Deashing Method for DC Polymer Film Capacitors. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 1917-1924	2.3	1
308	Effect of moisture migration on surface discharge on oil-pressboard of power transformers under cooling. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1743-1751	2.3	8
307	Image Characteristic Extraction of Ice-Covered Outdoor Insulator for Monitoring Icing Degree. <i>Energies</i> , <b>2020</b> , 13, 5305	3.1	4
306	Non-Intrusive Measurement of Transient Electric Field Distribution Under AC and Impulse Voltages. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 10898-10902	4	1
305	Effects of radical scavenger on space charge accumulation of PP/ULDPE composites for HVDC cable insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 989-997	2.3	1
304	Electrical properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> -EPDM for cable accessories. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 932-938	2.3	1
303	Influence of Polarization and Non-Uniform Electric Field on Failure Characteristics of Polypropylene Film. <i>IEEE Access</i> , <b>2020</b> , 8, 74423-74431	3.5	0
302	Compatibility dependent space charge accumulation behavior of polypropylene/elastomer blend for HVDC cable insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 947-955	2.3	14
301	Temperature gradient dependence on electrical tree in epoxy resin with harmonic superimposed DC voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 270-278	2.3	14
300	Effects of high temperature and high electric field on the space charge behavior in epoxy resin for power modules. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 882-890	2.3	14
299	Effects of Temperature Gradient on Electrical Tree Growth and Partial Discharge in Silicone Rubber Under AC Voltage. <i>IEEE Access</i> , <b>2020</b> , 8, 54009-54018	3.5	5
298	Coupling Effect of Molecular Chain Displacement and Carrier Trap Characteristics on DC Breakdown of HDPE/LDPE Blend Insulation. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
297	Epoxy insulator with surface graded-permittivity by magnetron sputtering for gas-insulated line. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 197-205	2.3	16
296	Effect of Crystalline Morphology on Electrical Tree Growth Characteristics of High-Density and Low-Density Polyethylene Blend Insulation. <i>IEEE Access</i> , <b>2020</b> , 8, 114413-114421	3.5	2
295	Molecular Structure Modulated Trap Distribution and Carrier Migration in Fluorinated Epoxy Resin. <i>Molecules</i> , <b>2020</b> , 25,	4.8	7
294	Electric-Field- and Temperature-Dependent Nonlinear Conductivity of SiC/Epoxy Resin Composites at Cryogenic Temperature. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2020</b> , 30, 1-6	1.8	1
293	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 231-239	2.3	13
292	Polycyclic Compounds Affecting Electrical Tree Growth in Polypropylene Under Ambient Temperature. <i>IEEE Access</i> , <b>2020</b> , 8, 8886-8898	3.5	2

291	Temperature-dependent DC conductivity and space charge distribution of XLPE/GO nanocomposites for HVDC cable insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 418-426	2.3	13
290	Insulation Properties Improvement of Polypropylene Films by Crystallization Regulation <b>2020</b> ,		1
289	Improved space charge transport model in bi-layer dielectrics considering carrier dynamic equilibrium. <i>High Voltage</i> , <b>2020</b> , 5, 176-183	4.1	10
288	Promising functional graded materials for compact gaseous insulated switchgears/pipelines. <i>High Voltage</i> , <b>2020</b> , 5, 231-240	4.1	30
287	Electrical tree degradation in high-voltage cable insulation: progress and challenges. <i>High Voltage</i> , <b>2020</b> , 5, 353-364	4.1	22
286	Synthesis of CoTe nanowires: a new electrode material for supercapacitor with high stability and high performance. <i>Nanotechnology</i> , <b>2020</b> , 31, 055706	3.4	10
285	Deep trap sites suppressing space charge injection in polycyclic aromatic compounds doped XLPE composite. <i>IET Nanodielectrics</i> , <b>2020</b> , 3, 10-13	2.8	6
284	Temperature-dependent electric field distribution in 800 kV valve-side bushing insulation for a converter transformer. <i>High Voltage</i> , <b>2020</b> ,	4.1	2
283	Electrical Treeing Characteristics in Epoxy under Electro-magnetic Coupled Field. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1559, 012089	0.3	6
282	Electric field reconstruction inside gas insulated transmission line by induced charge tomography. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1372-1375	2.3	0
281	Improved Electric Field Distribution Within Bushing Insulation by EP/GO Nanocomposites With Reduced Temperature Coefficient of Conductivity. <i>IEEE Access</i> , <b>2020</b> , 8, 176864-176872	3.5	5
280	Investigation of charge transport and breakdown properties in XLPE/GO nanocomposites part 2: Effect of polarity reversal. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1213-1221	2.3	5
279	Effect of micro-HO and micro-O on the decomposition characteristics of insulating medium CFCN gas using molecular dynamics and transition state method. <i>Journal of Molecular Modeling</i> , <b>2020</b> , 26, 252 <sup>2</sup>		3
278	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1305-1312	2.3	10
277	Non-Linear Conductivity Epoxy/SiC Composites for Emerging Power Module Packaging: Fabrication, Characterization and Application. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
276	Electric field regulation and parameter optimization of surface nonlinear conductivity spacer for 500 kV DC-GIL. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1330-1338	2.3	18
275	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> , <b>2020</b> , 27, 1204-1212	2.3	11
274	Temperature Dependent Surface Charge and DC Flashover Voltage of Fluorinated Polypropylene Film <b>2019</b> ,		1

273	Surface coating affecting charge distribution and flashover voltage of cone-type insulator under DC stress. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 706-713	2.3	15
272	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 876-884	2.3	7
271	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 801-809	2.3	16
270	Magnetic field induced variation in surface charge accumulation behavior on epoxy/Al <sub>2</sub> O <sub>3</sub> nanocomposites under DC stress. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 859-867	2.3	10
269	Effect of Fullerene Nanoparticle on Tuning Trap Level Distribution of Fullerene/Polyethylene Nanocomposites <b>2019</b> ,		2
268	Electrical Tree Growth Characteristics in Epoxy Resin With Harmonic Superimposed DC Voltage. <i>IEEE Access</i> , <b>2019</b> , 7, 47273-47281	3.5	8
267	Effect of voltage stabilizers on the space charge behavior of XLPE for HVDC cable application. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 34-42	2.3	25
266	Surface FGM Insulator Based on BaTiO <sub>3</sub> Magnetron Sputtering for Electric Field Grading of AC Gas Insulated Power Apparatus. <i>IEEE Access</i> , <b>2019</b> , 7, 62681-62688	3.5	11
265	Surface coating affecting charge distribution and flashover voltage of cone-type insulator under DC stress. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 706-713	2.3	3
264	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 776-783	2.3	6
263	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 818-825	2.3	13
262	Inhibition Effect of Graphene Nanoplatelets on Electrical Degradation in Silicone Rubber. <i>Polymers</i> , <b>2019</b> , 11,	4.5	7
261	Electrical Tree Characteristics in Polypropylene Under Impulse Superimposed DC Voltage in LN <sub>2</sub> . <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-3	1.8	2
260	Electrical treeing initiation and breakdown phenomenon in polypropylene under DC and pulse combined voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 202-210	2.3	11
259	Multistep and Multiscale Electron Trapping for High-Efficiency Modulation of Electrical Degradation in Polymer Dielectrics. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 7045-7053	3.8	15
258	Electrical Tree in HTV Silicone Rubber With Temperature Gradient Under Repetitive Pulse Voltage. <i>IEEE Access</i> , <b>2019</b> , 7, 41250-41260	3.5	15
257	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 664-667	2.3	51
256	Effect of Short Circuit Current on Temperature Distribution of Current Lead for HTS Cable Termination. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	3



255	Temperature-dependent surface charge and discharge behaviour of converter transformer oil/paper insulation under DC voltage. <i>IET Science, Measurement and Technology</i> , <b>2019</b> , 13, 29-34	1.5	5
254	Review of Fluorination Modification of Epoxy Resin Insulators for Gas Insulated Transmission Pipeline <b>2019</b> ,		2
253	Application of Surface Functionally Graded Materials for Solid Insulator in Gas Insulated Power Apparatus <b>2019</b> ,		2
252	Nonlinear conductivity and charge transport characteristics of silicone rubber/SiC composites under impulse superimposed on DC voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 776-783	2.3	3
251	Temperature-dependent charge property of silicone rubber/SiC composites under lightning impulse superimposed DC voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 810-817	2.3	4
250	Novel insulator with interfacial FGM for DC compact gaseous insulated pipeline. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 818-825	2.3	12
249	High thermal conductivity insulation and sheathing materials for electric vehicle cable application. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 1363-1370	2.3	5
248	Improved DC Conductivity and Space Charge Characteristics of XLPE for HVDC Cable Application: Effect of Voltage Stabilizers. <i>IEEE Access</i> , <b>2019</b> , 7, 66576-66583	3.5	13
247	Magnetic field induced variation in surface charge accumulation behavior on epoxy/Al <sub>2</sub> O <sub>3</sub> nanocomposites under DC stress. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 859-867	2.3	2
246	Image Characteristic Extraction of Surface Phenomena for Flashover Monitoring of Ice-Covered Outdoor Insulator <b>2019</b> ,		1
245	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 876-884	2.3	1
244	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 801-809	2.3	2
243	Numerical Investigation on Collision of Pollution Particles on Outdoor Insulators. <i>IEEE Access</i> , <b>2019</b> , 7, 56974-56985	3.5	4
242	Effect of Polycyclic Compounds Fillers on Electrical Treeing Characteristics in XLPE with DC-Impulse Voltage. <i>Energies</i> , <b>2019</b> , 12, 2767	3.1	4
241	Electronic and optical properties of C-doped BN nanotubes by adsorption of typical decomposition products of C <sub>3</sub> F <sub>7</sub> CN gas. <i>Applied Surface Science</i> , <b>2019</b> , 491, 698-706	6.7	4
240	Nanoscale-trap-modulated electrical degradation in polymer dielectric composites using antioxidants as voltage stabilizers. <i>Composites Part B: Engineering</i> , <b>2019</b> , 178, 107434	10	5
239	Dielectric relaxation and trap-modulated DC breakdown of polypropylene blend insulation. <i>Polymer</i> , <b>2019</b> , 185, 121935	3.9	12
238	Application of EP/SiC Coated Insulator in DC Gas-solid Insulation System <b>2019</b> ,		1



237	Mechanism of deep trap sites in epoxy/graphene nanocomposite using quantum chemical calculation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 1577-1580	2.3	25
236	Effect of Temperature Gradient on Electrical Tree in XLPE From 0 to 196 °C. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-4	1.8	0
235	Effects of Antioxidant Additives on Electrical Tree Characteristics in EPDM Under Liquid Nitrogen. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	2
234	DC-Impulse Voltage-Dependent Electrical Tree Growth Characteristics of Epoxy Resin in LN2. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	2
233	Electric Field Regulation of Insulator Interface by FGM With Conductivity for Superconducting-GIL. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	10
232	Application of E-Field Adaptive Insulator for DC GHe-Insulated Pipeline. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-3	1.8	2
231	Effects of ZnO magnetron sputtering on surface charge and flashover voltage of oil-impregnated paper. <i>High Voltage</i> , <b>2019</b> , 4, 308-315	4.1	20
230	Surface Functional Graded Material Considered for DC Gas-Insulated Pipeline <b>2019</b> ,		1
229	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 1956-1964	2.3	12
228	Mechanical stress distribution and risk assessment of 110kV GIS insulator considering Al <sub>2</sub> O <sub>3</sub> settlement. <i>High Voltage</i> , <b>2019</b> , 4, 65-71	4.1	23
227	Dynamic formation mechanism of water droplet and induced surface discharges on silicone rubber composites. <i>High Voltage</i> , <b>2019</b> , 4, 59-64	4.1	8
226	Dynamic Behavior of Droplets and Flashover Characteristics for CFD and Experimental Analysis on SiR Composites. <i>IEEE Access</i> , <b>2019</b> , 7, 8095-8101	3.5	6
225	Surface Charge Transport Characteristics of ZnO/Silicone Rubber Composites Under Impulse Superimposed on DC Voltage. <i>IEEE Access</i> , <b>2019</b> , 7, 3008-3017	3.5	12
224	Magnetic-Field-Dependent Electrical Tree Under Impulse-Superimposed DC Voltage at Low Temperature. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	7
223	Surface Discharge Property of Polypropylene/BN Nanocomposite for HTS Apparatus Application. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-4	1.8	1
222	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	3
221	Thermal and Electrical Properties of Nanoparticle Oriented Epoxy/BN/SiC Composites for Superconducting Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	1
220	Effects of treatment time and temperature on the DC corona pretreatment performance of waste activated sludge. <i>Plasma Science and Technology</i> , <b>2018</b> , 20, 025501	1.5	

219	Evaluation of high-voltage AC cable grounding systems based on the real-time monitoring and theoretical calculation of grounding currents. <i>High Voltage</i> , <b>2018</b> , 3, 38-43	4.1	6
218	Effects of mechanical stretching on electrical treeing characteristics in EPDM. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 84-93	2.3	15
217	Compressive stress dependence of electrical tree growth characteristics in EPDM. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 13-20	2.3	17
216	Improvement on Partial Discharge Resistance of Epoxy/Al <sub>2</sub> O <sub>3</sub> Nanocomposites by Irradiation With 7.5 MeV Electron Beam. <i>IEEE Access</i> , <b>2018</b> , 6, 25121-25129	3.5	6
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214	Carrier mobility and trap distribution dependent flashover characteristics of epoxy resin. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 466-471	2.5	40
213	Tree Growth Characteristics of Epoxy Resin in LN <sub>2</sub> Under DC Superimposed Pulse Voltage. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	9
212	Temperature dependent surface potential decay and flashover characteristics of epoxy/SiC composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 631-638	2.3	52
211	Surface Potential Decay of Negative Corona Charged Epoxy/Al <sub>2</sub> O <sub>3</sub> Nanocomposites Degraded by 7.5-MeV Electron Beam. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 2721-2729	1.3	14
210	Effects of non-linear conductivity on charge trapping and de-trapping behaviours in epoxy/SiC composites under DC stress. <i>IET Science, Measurement and Technology</i> , <b>2018</b> , 12, 83-89	1.5	27
209	Temperature-dependent nonlinear conductivity and carrier mobility of silicone rubber/SiC composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1080-1087	2.3	20
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207	Direct Fluorination Induced Variation in Interface Discharge Behavior Between Polypropylene and Silicone Rubber Under AC Voltage. <i>IEEE Access</i> , <b>2018</b> , 6, 23907-23917	3.5	6
206	Surface Layer Fluorination-Modulated Space Charge Behaviors in HVDC Cable Accessory. <i>Polymers</i> , <b>2018</b> , 10,	4.5	18
205	Effects of nonlinear conductivity on surface charge characteristics of epoxy/SiC composites under DC stress <b>2018</b> ,		2
204	Temperature dependent surface charge and discharge behavior of epoxy/AlN nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1300-1307	2.3	10
203	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1202-1210	2.3	45
202	Understanding Trap Effects on Electrical Treeing Phenomena in EPDM/POSS Composites. <i>Scientific Reports</i> , <b>2018</b> , 8, 8481	4.9	26

201	Electrical Field Distribution in 600 kV Converter Transformer Bushing Core with the Application of Epoxy Resin with Nonlinear Conductivity <b>2018</b> ,		4
200	Numerical Simulation of Electric Field Distribution along the DC-GIL Spacer with SF <sub>6</sub> /N <sub>2</sub> Mixture <b>2018</b> ,		1
199	Inhibition Effect of Graphene on Space Charge Injection and Accumulation in Low-Density Polyethylene. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	8
198	A Review of Polypropylene and Polypropylene/Inorganic Nanocomposites for HVDC Cable Insulation <b>2018</b> ,		3
197	Surface Charge Distribution Measurement before and after DC Flashover: A Novel Insight to the Influence of Surface Charge on Flashover Voltage <b>2018</b> ,		2
196	Coupling Effects of Ambient Temperature and Filler Contents on Surface Charge and Discharge Behavior of Epoxy/AlN Nanocomposites <b>2018</b> ,		1
195	Effects of Temperature on Surface Charge and Flashover Characteristics of Epoxy/SiC Composites <b>2018</b> ,		1
194	Temperature-Dependent Surface Charge and Flashover Behaviors of Oil-Paper Insulation Under Impulse With Superimposed DC Voltage. <i>IEEE Access</i> , <b>2018</b> , 6, 63087-63093	3.5	8
193	Numerical simulation on the surface charge accumulation process of epoxy insulator under needle-plane corona discharge in air. <i>IET Science, Measurement and Technology</i> , <b>2018</b> , 12, 9-16	1.5	9
192	Simulation of Interface Charge Behaviors in HVDC Cable Accessory Based on Bipolar Carrier Transportation Model <b>2018</b> ,		1
191	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 2405-2412	2.3	14
190	Trap Distribution and Dielectric Breakdown of Isotactic Polypropylene/Propylene Based Elastomer With Improved Flexibility for DC Cable Insulation. <i>IEEE Access</i> , <b>2018</b> , 6, 58645-58661	3.5	27
189	Simulation of Interface Charge Behaviors in HVDC Cable Accessory Based on Bipolar Carrier Transportation Model <b>2018</b> ,		3
188	Suppressing Space Charge in LDPE/GO Nanocomposites for HVDC Cable Application <b>2018</b> ,		1
187	Electrical Tree Initiation and Growth in Silicone Rubber under Combined DC-Pulse Voltage. <i>Energies</i> , <b>2018</b> , 11, 764	3.1	14
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185	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1479-1486	2.3	18
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183	Surface and interface charge accumulation and decay of oil-paper insulation under DC voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 939-946	2.3	9
182	Effects of direct fluorination on charge coupling behavior of oil-paper insulation under DC and pulse voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 947-955	2.3	10
181	Dielectric and thermal characteristics of vegetable oil filled with BN nanoparticles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 956-963	2.3	22
180	Temperature-dependent surface charge behavior of polypropylene film under DC and pulse voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 774-783	2.3	12
179	Investigation on shed icicle characteristics and induced surface discharges along a suspension insulator string during ice accretion. <i>IET Generation, Transmission and Distribution</i> , <b>2017</b> , 11, 1265-1269	2.5	10
178	Trap Modulated Charge Carrier Transport in Polyethylene/Graphene Nanocomposites. <i>Scientific Reports</i> , <b>2017</b> , 7, 4015	4.9	53
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176	Investigation of electrification and breakdown strength about transformer oil/pressboard. <i>IET Electric Power Applications</i> , <b>2017</b> , 11, 386-392	1.8	9
175	Effects of crystal morphology on space charge transportation and dissipation of SiC/silicone rubber composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 2616-2625	2.3	18
174	Trap distribution of electron beam irradiated epoxy resin under repetitive pulse voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 3869-3877	2.3	17
173	Investigating the Influence of Different Types of Nanoparticles on Thermal and Dielectric Properties of Insulation in Converter Transformer <b>2017</b> ,		1
172	Effect of ambient temperature on electrical treeing and breakdown phenomenon of polypropylene with repetitive pulse voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 2216-2224	2.3	10
171	Suppressing interface charge between LDPE and EPDM for HVDC cable accessory insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 1331-1339	2.3	35
170	Effects of ZnO particles on space charge of EVA copolymer for HVDC cable accessory insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 1503-1510	2.3	6
169	Using chaotic features of leakage current for monitoring dynamic behavior of surface discharges on an ice-covered insulator. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 2607-2615	2.3	7
168	Effects of mechanical stretching on space charge behaviors of PP/POE blend for HVDC cables. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 1438-1445	2.3	22
167	Effects of DC and pulse voltage combination on surface charge dynamic behaviors of epoxy resin. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 2025-2033	2.3	11
166	Effects of ambient temperature on electrical tree in epoxy resin under repetitive pulse voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 1527-1536	2.3	20

165	Effects of mechanical stress on treeing growth characteristics in HTV silicone rubber. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 1547-1556	2.3	18
164	Surface charge behavior of silicone rubber/SiC composites with field-dependent conductivity. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 1340-1348	2.3	34
163	Nonlinear conductivity and interface charge behaviors between LDPE and EPDM/SiC composite for HVDC cable accessory. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 1566-1573	2.3	41
162	Temperature-dependent electrical tree in silicone rubber under repetitive pulse voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 2291-2298	2.3	11
161	Effects of nonlinear conductivity on interface charge in HVDC cable accessories <b>2017</b> ,		2
160	Surface charge and flashover characteristics of fluorinated PP under pulse voltage. <i>IET Science, Measurement and Technology</i> , <b>2017</b> , 11, 18-24	1.5	11
159	Effect of elastomer type on electrical and mechanical properties of polypropylene/elastomer blends <b>2017</b> ,		2
158	Trap dependent interface charge behaviors of fluorinated HVDC cable accessories <b>2017</b> ,		1
157	Improved ampacity of buried HVDC cable with high thermal conductivity LDPE/BN insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 2667-2676	2.3	17
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155	Effects of Direct Fluorination on Space Charge and Trap Distribution of PI Film in LN <sub>2</sub> . <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	13
154	Discharge Breakdown Characteristics With Fluorinated Polyimide Films in High-Temperature Superconducting Cable Insulation. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	5
153	Surface Potential Behavior of Direct-Fluorinated PPLP Under Quench Condition. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	2
152	Surface Insulation Breakdown Behaviors in Liquid Nitrogen Environment of Epoxy/BN Composite. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-4	1.8	4
151	Effects of direct fluorination on space charge accumulation in HTV silicone rubber. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 2353-2360	2.3	13
150	Effect of low temperature on electrical treeing of polypropylene with repetitive pulse voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 1915-1923	2.3	10
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148	Thermal conductivity and surface dielectric properties of micro sized BN filled polyethylene <b>2016</b> ,		1

147	Effect of Cryogenic Temperature on Tree Characteristics in Silicone Rubber/SiO <sub>2</sub> Nanocomposites Under Repetitive Pulse Voltage. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-4	1.8	6
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145	Effect of direct fluorination on partial discharge characteristics of polyimide film used as magnet wire insulation of generator. <i>IET Generation, Transmission and Distribution</i> , <b>2016</b> , 10, 2251-2258	2.5	2
144	Dynamic behavior of surface charge on double-layer oil-paper insulation under pulse voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 2712-2719	2.3	16
143	Thermal conductivity and arcing resistance of micro or hybrid BN filled polyethylene under pulse strength. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 3061-3070	2.3	10
142	Surface charge accumulation and decay on directfluorinated oil-impregnated paper. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 3094-3101	2.3	9
141	Field-dependent conductivity and space charge behavior of silicone rubber/SiC composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 3108-3116	2.3	36
140	Space charge behaviors of PP/POE/ZnO nanocomposites for HVDC cables. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 3165-3174	2.3	56
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138	Effects of AC and pulse voltage combination on surface charge accumulation and decay of epoxy resin. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 2368-2376	2.3	22
137	Effect of Magnetic Field on Electrical Treeing Behavior of Silicone Rubber at Low Temperature. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-4	1.8	8
136	Effects of ambient temperature on surface charge and flashover of heat-shrinkable polymer under polarity reversal voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 1190-1197	2.3	52
135	Effects of water absorption on surface charge and dielectric breakdown of polyimide/Al <sub>2</sub> O <sub>3</sub> nanocomposite films. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 134-141	2.3	8
134	Tree Growth Characteristics of Epoxy Resin in LN <sub>2</sub> Under Magnetic Field. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	4
133	Influence of Fine Metal Particles on Surface Discharge Characteristics of Outdoor Insulators. <i>Energies</i> , <b>2016</b> , 9, 87	3.1	2
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131	Effect of pulse frequency on tree characteristics in epoxy resin under low temperature. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 104-112	2.3	13
130	Effects of thermal conductivity on dielectric breakdown of micro, nano sized BN filled polypropylene composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 2116-2125	2.3	24



129	Ageing estimation of heat-shrinkable material based on analytic hierarchy process <b>2016</b> ,		2
128	Effects of BN nanoparticles on space charge characteristics of vegetable oil <b>2016</b> ,		1
127	Interface charge behaviors between LDPE and EPDM filled with carbon black nanoparticles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 3696-3703	2.3	6
126	Surface charge and flashover voltage of EVA/CB nanocomposite under mechanical stresses. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 3734-3741	2.3	13
125	Surface potential behavior of fluorinated polyimide film under low temperature. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 121-128	2.3	9
124	Effects of wind condition on hydrophobicity behavior of silicone rubber in corona discharge environment. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 385-393	2.3	19
123	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 2102-2109	2.3	13
122	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 1-9	2.3	6
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120	Electrical tree characteristics in silicone rubber under repetitive pulse voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 720-727	2.3	30
119	Hydrophobicity, surface charge and DC flashover characteristics of direct-fluorinated RTV silicone rubber. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 934-940	2.3	41
118	High thermal conductivity transformer oil filled with BN nanoparticles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 851-858	2.3	39
117	Reduction of vibration noise for amorphous metal alloy core distribution transformer. <i>Transactions of Tianjin University</i> , <b>2015</b> , 21, 289-298	2.9	3
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115	Effect of direct fluorination on surface charge of polyimide films using repetitive pulsed power. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 1777-1784	2.3	15
114	Effects of magnetic field on electrical tree growth in silicone rubber under repetitive pulse voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 1785-1792	2.3	10
113	Tree initiation characteristics of epoxy resin in Ln2 for superconducting magnet insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 1793-1800	2.3	17
112	Effects of BN nanoparticles on thermal conductivity and breakdown strength of vegetable oil <b>2015</b> ,		7



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110	Thermal conductivity and dielectric characteristics of transformer oil filled with bn and Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 2530-2536	2.3	30
109	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 2958-2967	2.3	11
108	Effect of pulse duration on surface charge of direct-fluorinated polyimide films. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 3481-3487	2.3	7
107	Interface charge behavior of multi-layer oil/paper insulation under DC and polarity reversal voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 2628-2638	2.3	20
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105	Tree characteristics in silicone rubber/SiO <sub>2</sub> nanocomposites under low temperature. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 503-510	2.3	34
104	Influence of surface charge on DC flashover characteristics of epoxy/BN nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 529-536	2.3	47
103	Effect of surface fluorination on space charge behavior in multilayered polyimide films. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 1817-1823	2.3	22
102	Effects of thermal conductivity on dc resistance to erosion of silicone rubber/BN nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 511-518	2.3	51
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100	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 1892-1988	2.3	5
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98	Energy eigenvector analysis of surface discharges for evaluating the performance of polymer insulator in presence of water droplets. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 2438-2447	2.3	3
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95	Surface charge and dc flashover characteristics of direct-fluorinated SiR/SiO <sub>2</sub> nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 2602-2610	2.3	42
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91	Effects of thermally conducting particles on resistance to tracking failure of polyimide/BN composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 1565-1572	2.3	29
90	Effects of nano-SiO <sub>2</sub> particles on surface tracking characteristics of silicone rubber composites. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 102905	3.4	24
89	High thermal conductivity transformer oil filled with BN nanoparticles <b>2014</b> ,		2
88	Characterization of Partial Discharge With Polyimide Film in $\text{LN}_{2}$ Considering High Temperature Superconducting Cable Insulation. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2014</b> , 24, 1-5	1.8	13
87	Pattern analysis on dielectric breakdown characteristics of biodegradable polyethylene film under nonuniform electric field. <i>International Transactions on Electrical Energy Systems</i> , <b>2013</b> , 23, 72-82	2.2	5
86	Surface charge accumulation and decay on directfluorinated polyimide/Al <sub>2</sub> O <sub>3</sub> nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2013</b> , 20, 1764-1771	2.3	52
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84	Dynamic behavior of surface charge on direct- fluorinated polyimide films. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2013</b> , 20, 947-954	2.3	56
83	Thermal accumulation and tracking failure process of BN-filler epoxy-matrix composite. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2013</b> , 20, 2270-2276	2.3	19
82	Hydrophobicity evaluation of silicone rubber insulator using DC discharge induced acoustic wave. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2013</b> , 20, 1836-1844	2.3	6
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80	Effects of Fluorination on Surface Charge Accumulation and Decay of Polyimide Film. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 120201	1.4	8
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78	Dynamic behavior of surface charge on direct-fluorinated polyimide films <b>2013</b> ,		5
77	Effects of low temperature on treeing Phenomena of silicone rubber/SiO <sub>2</sub> nanocomposites <b>2013</b> ,		1
76	Change in PD resistance of polymer insulating materials irradiated with $\gamma$ ray at high dose rate <b>2013</b> ,		1

75	Surface charge accumulate and decay of direct-fluorinated RTV silicone rubber <b>2013</b> ,		2
74	Effect of nanosecond rise time of pulse voltage on the surface charge of Epoxy/TiO <sub>2</sub> nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2013</b> , 20, 321-328	2.3	18
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67	Hydrophobicity evaluation of silicone rubber insulator using PD-induced electromagnetic wave. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2012</b> , 19, 1060-1067	2.3	13
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63	Electrical and mechanical characteristics of polyimide nanocomposite films for wind generator <b>2012</b> ,		2
62	Effects of SiO <sub>2</sub> particles on surface charge of epoxy nanocomposites <b>2012</b> ,		1
61	Effect of surface smoothness on tracking mechanism in XLPE-Si-rubber interfaces. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2011</b> , 18, 176-181	2.3	29
60	Effect of ambient temperature on electrical treeing characteristics in silicone rubber. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2011</b> , 18, 401-407	2.3	44
59	Effects of magnetic field on tracking failure of gamma-ray irradiated polymer insulating materials. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2011</b> , 18, 140-148	2.3	6
58	Pattern analysis of discharge characteristics for hydrophobicity evaluation of polymer insulator. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2011</b> , 18, 114-121	2.3	24

57	Effects of Gamma-Ray Irradiation on Tracking Failure of Polymer Insulating Materials <b>2011</b> ,		2
56	Effects of nano filler on treeing phenomena of silicone rubber nanocomposites <b>2011</b> ,		6
55	Effect of gamma-ray irradiation on lateral charge motion on surface of laminated polymer insulating materials <b>2011</b> ,		2
54	Effect of magnetic field on electrical treeing behavior in XLPE cable insulation <b>2011</b> ,		4
53	Effects of frequency on treeing phenomena in Silicone rubber <b>2011</b> ,		2
52	Application of nonlinear methods in tracking failure test of printed circuit boards under reduced pressure. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2010</b> , 17, 548-554	2.3	14
51	Effect of cross-linking temperature on charge decay behavior in XLPE <b>2010</b> ,		2
50	Effect of temperature on electrical tree in silicone rubber <b>2010</b> ,		4
49	Decay behavior of surface charge on gamma-ray irradiated epoxy resin <b>2010</b> ,		10
48	Effects of interfacial pressure on tracking failure at XLPE cable joint by analyzing discharge light distribution <b>2010</b> ,		2
47	Application of nonlinear methods in tracking failure test of silicone rubber nanocomposite <b>2010</b> ,		1
46	Dependence of electrical treeing behavior on cross-linking temperature of XLPE <b>2010</b> ,		2
45	Recurrent plot analysis of leakage current on flashover performance of rime-iced composite insulator. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2010</b> , 17, 465-472	2.3	40
44	Surface breakdown of printed circuit board under magnetic field with reduced pressure. <i>Transactions of Tianjin University</i> , <b>2010</b> , 16, 6-10	2.9	1
43	Deterioration analysis of ex-serviced 110 kV XLPE cable based on residual charge method <b>2009</b> ,		1
42	Gamma-ray Irradiation Inhibiting Surface Charge Accumulation on Polyethylene. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2009</b> , 16, 876-881	2.3	36
41	Chaos analysis of discharge current based on tracking test of phenolic resin. <i>Transactions of Tianjin University</i> , <b>2009</b> , 15, 1-6	2.9	
40	Chaos existence in surface discharge of tracking test. <i>Transactions of Tianjin University</i> , <b>2009</b> , 15, 168-172.	2.9	2

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38	Dynamic behavior of surface charge on gamma-ray irradiated polybutylene naphthalate. <i>Polymer Degradation and Stability</i> , <b>2009</b> , 94, 139-143	4.7	16
37	Dynamic behavior of water droplet for evaluating outdoor insulator <b>2009</b> ,		4
36	Frequency Distribution of Leakage Current on Silicone Rubber Insulator in Salt-Fog Environments. <i>IEEE Transactions on Power Delivery</i> , <b>2009</b> , 24, 1458-1464	4.3	29
35	Phenomena and mechanism of electrical tree in silicone rubber <b>2009</b> ,		9
34	The application of recurrence plot in DC tracking test of gamma-ray irradiated polycarbonate. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2009</b> , 16, 17-23	2.3	6
33	<b>2009</b> ,		3
32	Recurrent plot analysis of leakage current for monitoring outdoor insulator performance. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2009</b> , 16, 139-146	2.3	47
31	Water tree deterioration diagnosis for 10 kV XLPE cable based on Residual Charge Method <b>2009</b> ,		2
30	Recurrence plot analysis of discharge currents in tracking tests of gamma-ray irradiated polymers. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2008</b> , 15, 974-981	2.3	21
29	Effects of corona discharge on surface deterioration of silicone rubber insulator under reduced pressures <b>2008</b> ,		9
28	<b>2008</b> ,		1
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25	Effects of gamma-ray irradiation on dielectric surface breakdown of polybutylene polymers. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2007</b> , 14, 696-701	2.3	26
24	Investigation on Leakage Current of Silicone Rubber Insulator in Salt-fog Chamber <b>2007</b> ,		1
23	Chaos Analysis of Discharge Current on Phenolic Resin under Reduced Pressure <b>2006</b> ,		5
22	Effects of Atmospheric Pressure on Insulation Breakdown of Gamma-ray Irradiated Polyphenylene Oxide. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2004</b> , 124, 271-276	0.2	

21	Effects of Magnetic Field on Surface Dielectric Breakdown of Contaminated Printed Wiring Board. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2003</b> , 123, 562-568	0.2	2
20	Effects of the Content of Flame Retardant on the Surface Discharge of Polycarbonate. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2002</b> , 122, 404-408	0.2	
19	Effects of Gamma-ray Irradiation on Erosion Depth of Polybutylene Naphthalate under Decreased Pressure.. <i>Radioisotopes</i> , <b>2002</b> , 51, 256-260	0.1	
18	Effects of Magnetic field on Discharge Characteristics of Gamma-ray Irradiated Polyphenylene Oxide.. <i>Radioisotopes</i> , <b>2002</b> , 51, 301-306	0.1	0
17	Temperature Effects of Surface Discharge Characteristics of Epoxy Resin Laminate. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2002</b> , 122, 415-420	0.2	1
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15	Effect of Atmospheric Pressure on Discharge Characteristics of Gamma-ray Irradiated Polybutylene Terephthalate.. <i>Radioisotopes</i> , <b>2002</b> , 51, 197-203	0.1	2
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13	Effects of Gamma-ray Irradiation on Discharge Characteristics of Organic Insulating Materials. <i>Radioisotopes</i> , <b>2002</b> , 51, 1-9	0.1	7
12	Wavelet Analysis of Scintillation Discharge Current on DC Tracking Resistance of Gamma-ray Irradiated Polyethylene and Polycarbonate. <i>Radioisotopes</i> , <b>2001</b> , 50, 1-11	0.1	12
11	Wavelet Analysis of Scintillation Discharge Current in DC Tracking Resistance of Gamma-rays Irradiated Organic Insulating Materials. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>1998</b> , 118, 780-784	0.2	2
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