

# Jinliang He

## List of Publications by Year in descending order

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556  
papers

13,998  
citations

19657

61  
h-index

43889

91  
g-index

587  
all docs

587  
docs citations

587  
times ranked

7810  
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear-step solvability of some folded concave and singly-parametric sparse optimization problems. <i>Mathematical Programming</i> , 2023, 198, 1339-1380.	2.4	1
2	On the Role of Shield Wires in Mitigating Lightning-Induced Overvoltages in Overhead Lines - Part I: A Critical Review and a New Analysis. <i>IEEE Transactions on Power Delivery</i> , 2023, 38, 335-344.	4.3	9
3	On the Role of Shield Wires in Mitigating Lightning-Induced Overvoltages in Overhead Lines - Part II: Simulation Results for Practical Configurations. <i>IEEE Transactions on Power Delivery</i> , 2023, 38, 345-352.	4.3	5
4	Octavinyl polyhedral oligomeric silsesquioxane on tailoring the DC electrical characteristics of polypropylene. <i>High Voltage</i> , 2022, 7, 137-146.	4.7	6
5	Trampoline-Shaped Micro Electric-Field Sensor for AC/DC High Electric Field Measurement. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 13791-13798.	7.9	4
6	Nonlinearly conductive ZnO microvaristors/epoxy resin composite prepared by wet winding with polyester fibre cloth. <i>High Voltage</i> , 2022, 7, 32-40.	4.7	5
7	Ultrahigh-energy-density dielectric materials from ferroelectric polymer/glucose all-organic composites with a cross-linking network of hydrogen bonds. <i>Energy Storage Materials</i> , 2022, 49, 339-347.	18.0	46
8	Thickness effect on threshold electric field of ZnO microvaristors/silicone rubber composite with nonlinear conductivity. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 158, 106969.	7.6	8
9	Smart dielectric materials for next-generation electrical insulation. , 2022, 1, 19-49.		20
10	A Dielectric Polymer/Metal Oxide Nanowire Composite for Self-Adaptive Charge Release. <i>Nano Letters</i> , 2022, 22, 5167-5174.	9.1	9
11	The degradation of silicone rubber composites with ZnO microvaristors under impulse voltage. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 355501.	2.8	4
12	Designing HVDC GIS/GIL spacer to suppress charge accumulation. <i>High Voltage</i> , 2022, 7, 645-651.	4.7	12
13	Improved High-Temperature Electrical Properties of Polymeric Material by Grafting Modification. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8685-8693.	6.7	32
14	Insulating materials for realising carbon neutrality: Opportunities, remaining issues and challenges. <i>High Voltage</i> , 2022, 7, 610-632.	4.7	85
15	Insight into the Experimental Error in the Mapping of Electrical Properties with Electrostatic Force Microscopy. <i>Langmuir</i> , 2022, 38, 8534-8544.	3.5	8
16	HVAC Corona Current Characteristics and Audible Noise During Rain. <i>IEEE Transactions on Power Delivery</i> , 2021, 36, 331-338.	4.3	5
17	Nonconvex robust programming via value-function optimization. <i>Computational Optimization and Applications</i> , 2021, 78, 411-450.	1.6	1
18	Multilayered ferroelectric polymer composites with high energy density at elevated temperature. <i>Composites Science and Technology</i> , 2021, 202, 108594.	7.8	28

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19	Micro-Cantilever Capacitive Sensor for High-Resolution Measurement of Electric Fields. IEEE Sensors Journal, 2021, 21, 4317-4324.	4.7	18
20	Self-healing of internal damage in mechanically robust polymers utilizing a reversibly convertible molecular network. Journal of Materials Chemistry A, 2021, 9, 15975-15984.	10.3	34
21	Micro Electric Field Sensors: Principles and Applications. IEEE Industrial Electronics Magazine, 2021, 15, 35-42.	2.6	15
22	A simple method to measure DC electric field with space charges. Journal Physics D: Applied Physics, 2021, 54, 165203.	2.8	1
23	Design of adaptive bushing based on field grading materials. High Voltage, 2021, 6, 625-636.	4.7	15
24	Lichtenberg figures presenting electrostatic discharge patterns at different humidity. Journal Physics D: Applied Physics, 2021, 54, 34LT01.	2.8	9
25	Metal particle induced spacer surface charging phenomena in direct current gas-insulated transmission lines. Journal Physics D: Applied Physics, 2021, 54, 34LT03.	2.8	22
26	Polymer Nanocomposites with High Energy Density Utilizing Oriented Nanosheets and High-Dielectric-Constant Nanoparticles. Materials, 2021, 14, 4780.	2.9	9
27	Nanoscale mapping of electric polarizability in a heterogeneous dielectric material with surface irregularities. Nanotechnology, 2021, 32, 505711.	2.6	3
28	Polymer dielectrics sandwiched by medium-dielectric-constant nanoscale deposition layers for high-temperature capacitive energy storage. Energy Storage Materials, 2021, 42, 445-453.	18.0	91
29	A Self-Sustained Current Sensor for Smart Grid Application. IEEE Transactions on Industrial Electronics, 2021, 68, 12810-12820.	7.9	11
30	Charge cluster triggers unpredictable insulation surface flashover in pressurized SF <sub>6</sub> . Journal Physics D: Applied Physics, 2021, 54, 015308.	2.8	76
31	Gradient structure design of zinc oxide varistor microsphere composites for efficient electric field grading. Composites Part A: Applied Science and Manufacturing, 2021, , 106731.	7.6	1
32	The Study On Reactor Fault Detection Based on Model Layering. , 2021, , .		0
33	Dielectric Properties Improvement of Grafting-Modified Polypropylene by Silane for HVDC Cable Insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 2004-2010.	2.9	9
34	Piezoelectricâ€“Piezoresistive Coupling MEMS Sensors for Measurement of Electric Fields of Broad Bandwidth and Large Dynamic Range. IEEE Transactions on Industrial Electronics, 2020, 67, 551-559.	7.9	33
35	Measurement of Space Potential Distribution Around Overhead HVDC Transmission Lines Based on Potential Compensation on Suspended Conductor. IEEE Transactions on Power Delivery, 2020, 35, 523-530.	4.3	5
36	Comprehensive Modeling of Grounding Electrodes Buried in Ionized Soil Based on MoM-HBM Approach. IEEE Transactions on Power Delivery, 2020, 35, 1390-1398.	4.3	5

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37	Improving the protective effect of surge arresters by optimizing the electrical property of ZnO varistors. <i>Electric Power Systems Research</i> , 2020, 178, 106041.	3.6	18
38	Drive-Current-Free Switch With Internal Transduction in a Magneto Piezo-Electronic Transistor. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 3257-3266.	7.9	1
39	HVDC Corona Current Characteristics and Audible Noise During Wet Weather Transitions. <i>IEEE Transactions on Power Delivery</i> , 2020, 35, 1038-1047.	4.3	19
40	Fault Location in Power Distribution Systems via Deep Graph Convolutional Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2020, 38, 119-131.	14.0	149
41	Dielectric Modulated Cellulose Paper/PDMS-Based Triboelectric Nanogenerators for Wireless Transmission and Electropolymerization Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1904536.	14.9	142
42	Defect-targeted self-healing of multiscale damage in polymers. <i>Nanoscale</i> , 2020, 12, 3605-3613.	5.6	16
43	Scale- and Context-Aware Convolutional Non-Intrusive Load Monitoring. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 2362-2373.	6.5	79
44	Autonomous Self-Healing of Electrical Degradation in Dielectric Polymers Using In Situ Electroluminescence. <i>Matter</i> , 2020, 2, 451-463.	10.0	63
45	Self-Healing of Electrical Damage in Polymers. <i>Advanced Science</i> , 2020, 7, 2002131.	11.2	46
46	Mapping the Space Charge at Nanoscale in Dielectric Polymer Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53425-53434.	8.0	32
47	Polymer/molecular semiconductor all-organic composites for high-temperature dielectric energy storage. <i>Nature Communications</i> , 2020, 11, 3919.	12.8	268
48	Surface modification effect of MgO nanoparticles on the electrical properties of polypropylene nanocomposite. <i>High Voltage</i> , 2020, 5, 249-255.	4.7	51
49	Fault Detection for Covered Conductors With High-Frequency Voltage Signals: From Local Patterns to Global Features. <i>IEEE Transactions on Smart Grid</i> , 2020, , 1-1.	9.0	10
50	M2GSNet: Multi-Modal Multi-Task Graph Spatiotemporal Network for Ultra-Short-Term Wind Farm Cluster Power Prediction. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7915.	2.5	20
51	Analysis of Lightning-Related Stress in Transmission Lines Considering Ionization and Frequency-Dependent Properties of the Soil in Grounding Systems. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020, 62, 2849-2857.	2.2	9
52	MultiComposite Nonconvex Optimization for Training Deep Neural Networks. <i>SIAM Journal on Optimization</i> , 2020, 30, 1693-1723.	2.0	12
53	A Novel Current Reconstruction Method Based on Elastic Net Regularization. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 7484-7493.	4.7	8
54	Polymer nanocomposites with high energy density and improved charge/discharge efficiency utilizing hierarchically-structured nanofillers. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6576-6585.	10.3	74

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55	Self-healing of electrical damage in thermoset polymers <i>via</i> anionic polymerization. Journal of Materials Chemistry C, 2020, 8, 6025-6033.	5.5	31
56	Parametric Reconstruction of Multiple Line Currents Based on Magnetic Sensor Array. IEEE Transactions on Magnetics, 2020, 56, 1-8.	2.1	5
57	Simulation and design of 500 kV DC cable terminal accessory based on ZnO varistor microsphere composites. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 10-16.	2.9	16
58	Intrinsic hetero-polar surface charge phenomenon in environmental friendly C <sub>3</sub> F <sub>7</sub> CN/CO <sub>2</sub> gas mixture. Journal Physics D: Applied Physics, 2020, 53, 18LT03.	2.8	21
59	Interface-modulated nanocomposites based on polypropylene for high-temperature energy storage. Energy Storage Materials, 2020, 28, 255-263.	18.0	159
60	Prediction of radio interference from HVDC transmission lines based on corona discharge characteristics. High Voltage, 2020, 5, 679-687.	4.7	13
61	Gas-liquid interface charge characterisation techniques for HVDC GIS/GIL insulators. High Voltage, 2020, 5, 95-109.	4.7	64
62	Effect of different surface treatment agents on the physical chemistry and electrical properties of polyethylene nano-alumina nanocomposites. High Voltage, 2020, 5, 397-402.	4.7	25
63	Luminescence reveals micro discharge as a potential triggering factor for surface flashover. Journal Physics D: Applied Physics, 2020, 53, 445103.	2.8	7
64	Origins and effects of deep traps in functional group grafted polymeric dielectric materials. Journal Physics D: Applied Physics, 2020, 53, 475301.	2.8	42
65	Design and Electric Field Calculation of a Wall Bushing Made from Nonlinear Materials. Lecture Notes in Electrical Engineering, 2020, , 52-60.	0.4	0
66	Properties of grafting methyl acrylate on charge transport in polypropylene. , 2020, , .		2
67	Excellent electrical properties of zinc-oxide varistors by tailoring sintering process for optimizing line-arrester configuration. , 2020, , .		2
68	Electrode Extension Layer Design of DC Wall Bushing Based on Field Grading Material. , 2020, , .		1
69	Main Insulation Optimization of DC Wall Bushing Based On Field Grading Material. , 2020, , .		2
70	Influence of Grafting Maleimide on the Insulating Properties in Polypropylene. , 2020, , .		1
71	Polymer Nanocomposites with High Energy Density and Breakdown Strength utilizing Oriented BNNS. , 2020, , .		0
72	Modeling of Microcapsule-based Self-healing Material to Achieve Better Recovering from Electrical Tree Defects. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	Measures to Solve the Effect of HVDC Grounding Electrode Current on Metal Pipelines. , 2020, , .		1
74	Short-Term Load Forecasting With Deep Residual Networks. IEEE Transactions on Smart Grid, 2019, 10, 3943-3952.	9.0	410
75	Transient Voltage Measurements for Overhead Transmission Lines and Substations by Metal-Free and Contactless Integrated Electro-Optic Field Sensors. IEEE Transactions on Industrial Electronics, 2019, 66, 571-579.	7.9	54
76	Calibration of a sensor for an ion electric field under HVDC transmission lines. Journal of Engineering, 2019, 2019, 2842-2845.	1.1	4
77	Grading of electric field distribution of AC polymeric outdoor insulators using field grading material. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1253-1260.	2.9	33
78	A fractal-based stepped downward leader model including branched channel charge distribution and branch fading. Electric Power Systems Research, 2019, 176, 105940.	3.6	11
79	Breakdown phenomenon of ZnO varistors caused by non-uniform distribution of internal pores. Journal of the European Ceramic Society, 2019, 39, 4824-4830.	5.7	27
80	High Energy Density Polymer Dielectrics Interlayered by Assembled Boron Nitride Nanosheets. Advanced Energy Materials, 2019, 9, 1901826.	19.5	249
81	Large voltage control of magnetic anisotropy in CoFeB/MgO/OX structures at room temperature. APL Materials, 2019, 7, .	5.1	11
82	Boron Nitride Nanosheets: High Energy Density Polymer Dielectrics Interlayered by Assembled Boron Nitride Nanosheets (Adv. Energy Mater. 36/2019). Advanced Energy Materials, 2019, 9, 1970140.	19.5	3
83	Comparisons of different polypropylene copolymers as potential recyclable HVDC cable insulation materials. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 674-680.	2.9	12
84	High voltage gradient zinc oxide varistors for line surge arresters and GIS tank-type arresters. , 2019, , .		3
85	Temperature dependent electrical properties of thermoplastic polypropylene nanocomposites for HVDC cable insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1596-1604.	2.9	52
86	Space charge behavior in silicone rubber from in-service aged HVDC composite insulators. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 843-850.	2.9	3
87	DC Current Distribution in Both AC Power Grids and Pipelines Near HVDC Grounding Electrode Considering Their Interaction. IEEE Transactions on Power Delivery, 2019, 34, 2240-2247.	4.3	13
88	Field-dependent charging phenomenon of HVDC spacers based on dominant charge behaviors. Applied Physics Letters, 2019, 114, .	3.3	141
89	Comparisons of different polypropylene copolymers as potential recyclable HVDC cable insulation materials. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 674-680.	2.9	19
90	Space charge behavior in silicone rubber from in-service aged HVDC composite insulators. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 843-850.	2.9	12

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91	Current sensors based on GMR effect for smart grid applications. <i>Sensors and Actuators A: Physical</i> , 2019, 294, 8-16.	4.1	22
92	Ferroelectric Nanocomposites: Direct Detection of Local Electric Polarization in the Interfacial Region in Ferroelectric Polymer Nanocomposites ( <i>Adv. Mater.</i> 21/2019). <i>Advanced Materials</i> , 2019, 31, 1970154.	21.0	1
93	Identification of Partial Discharge Defects Based on Deep Learning Method. <i>IEEE Transactions on Power Delivery</i> , 2019, 34, 1557-1568.	4.3	50
94	Novel zinc-oxide varistor with superior performance in voltage gradient and aging stability for surge arrester. <i>Journal of Alloys and Compounds</i> , 2019, 789, 948-952.	5.5	27
95	Globally reinforced mechanical, electrical, and thermal properties of nonlinear conductivity composites by surface treatment of varistor microspheres. <i>Composites Science and Technology</i> , 2019, 175, 151-157.	7.8	19
96	Direct Detection of Local Electric Polarization in the Interfacial Region in Ferroelectric Polymer Nanocomposites. <i>Advanced Materials</i> , 2019, 31, e1807722.	21.0	81
97	Influence of front time on positive switching impulse discharge characteristics of UHVDC tower gaps. <i>Electric Power Systems Research</i> , 2019, 172, 32-37.	3.6	9
98	Discharge characteristics of different lightning air terminals under composite voltages. <i>Plasma Science and Technology</i> , 2019, 21, 051001.	1.5	4
99	Stable electrical properties of ZnO varistor ceramics with multiple additives against the AC accelerated aging process. <i>Ceramics International</i> , 2019, 45, 11105-11108.	4.8	22
100	Predicting streamer discharge front splitting by ionization seed profiling. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	2
101	The leakage current characterization on the electrical tree aging of polymer. , 2019, , .		2
102	Study on the calculation of shielding failure for dc transmission lines. <i>Journal of Engineering</i> , 2019, 2019, 1373-1376.	1.1	2
103	Micro Piezoelectric-capacitive Sensors for Highsensitivity Measurement of Space Electric Fields. , 2019, , .		6
104	Cellulose/BaTiO <sub>3</sub> aerogel paper based flexible piezoelectric nanogenerators and the electric coupling with triboelectricity. <i>Nano Energy</i> , 2019, 57, 450-458.	16.0	188
105	Self-healing of electrical damage in polymers using superparamagnetic nanoparticles. <i>Nature Nanotechnology</i> , 2019, 14, 151-155.	31.5	169
106	Achieving high dielectric permittivity, high breakdown strength and high efficiency by cross-linking of poly(vinylidene fluoride)/BaTiO <sub>3</sub> nanocomposites. <i>Composites Science and Technology</i> , 2019, 169, 142-150.	7.8	42
107	Overhead Transmission Line Parameter Reconstruction for UAV Inspection Based on Tunneling Magnetoresistive Sensors and Inverse Models. <i>IEEE Transactions on Power Delivery</i> , 2019, 34, 819-827.	4.3	45
108	An electrodynamic energy harvester with a 3D printed magnet and optimized topology. <i>Applied Physics Letters</i> , 2019, 114, 013902.	3.3	10

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109	Thermodynamic Properties of Negative Discharge Channels in a 1-m Air Gap Measured by Optical Interferometry. IEEE Transactions on Plasma Science, 2019, 47, 1917-1925.	1.3	9
110	Method of interturn fault detection for next-generation smart transformers based on deep learning algorithm. High Voltage, 2019, 4, 282-291.	4.7	29
111	A Framework for Automatically Extracting Overvoltage Features Based on Sparse Autoencoder. IEEE Transactions on Smart Grid, 2018, 9, 594-604.	9.0	67
112	Electroluminescence and electrical degradation of insulating polymers at electrode interfaces under divergent fields. Journal of Applied Physics, 2018, 123, .	2.5	8
113	Tailoring charge transport in epoxy based composite under temperature gradient using $K_{2}Ti_{6}O_{13}$ and asbestine whiskers. Journal Physics D: Applied Physics, 2018, 51, 215306.	2.8	9
114	Grading electric field in high voltage insulation using composite materials. IEEE Electrical Insulation Magazine, 2018, 34, 15-25.	0.8	49
115	Nonlinear effective permittivity of field grading composite dielectrics. Journal Physics D: Applied Physics, 2018, 51, 075304.	2.8	16
116	Evaluation of Lightning Current From Magnetic Field Based on Deconvolution Method. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 679-684.	2.2	8
117	How nonlinear V-I characteristics of single ZnO microvaristor influences the performance of its silicone rubber composite. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 623-630.	2.9	17
118	Improved dielectric and energy storage properties of poly(vinyl alcohol) nanocomposites by strengthening interfacial hydrogen-bonding interaction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 548, 179-190.	4.7	21
119	Learning-based data analytics: Moving towards transparent power grids. CSEE Journal of Power and Energy Systems, 2018, 4, 67-82.	1.1	34
120	Identifying Lightning Channel-Base Current Function Parameters by Powell Particle Swarm Optimization Method. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 182-187.	2.2	18
121	Improving electrical properties of multiple dopant ZnO varistor by doping with indium and gallium. Ceramics International, 2018, 44, 1168-1171.	4.8	48
122	Analysis of Short-Circuit Current Characteristics and Its Distribution of Artificial Grounding Faults on DC Transmission Lines. IEEE Transactions on Power Delivery, 2018, 33, 520-528.	4.3	15
123	Calculation of 3-D Ion-Flow Field at the Crossing of HVdc Transmission Lines by Method of Characteristics. IEEE Transactions on Power Delivery, 2018, 33, 1611-1619.	4.3	21
124	Surge Arrester with High Performance Metal Oxide Varistors for Deeply Suppressing Overvoltage in AC UHV Systems. , 2018, , .		1
125	Novel ZnO Varistors for Dramatically Improving Protective Effect of Surge Arresters. , 2018, , .		0
126	Comparison and Analysis on Key Performance of EHV/UHV DC Transmission Line Surge Arresters. , 2018, , .		2



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127	Mechanism of bulk charging behavior of ethylene propylene rubber subjected to surface charge accumulation. Journal of Applied Physics, 2018, 124, 244103.	2.5	12
128	Different microscopic features of AC and DC electrical trees in insulating polymer. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2259-2265.	2.9	17
129	Polymer Dielectrics: A Scalable, High-Throughput, and Environmentally Benign Approach to Polymer Dielectrics Exhibiting Significantly Improved Capacitive Performance at High Temperatures (Adv.) Tj ETQq1 1 0.784314 rgBT /Overloc	1.0	1
130	The Dielectric Properties of PP Nanocomposites Doped with Mesoporous Silica Nanoparticles. , 2018, , .		2
131	A Scalable, High-Throughput, and Environmentally Benign Approach to Polymer Dielectrics Exhibiting Significantly Improved Capacitive Performance at High Temperatures. Advanced Materials, 2018, 30, e1805672.	21.0	260
132	Convolutional sequence to sequence non-intrusive load monitoring. Journal of Engineering, 2018, 2018, 1860-1864.	1.1	70
133	Electrical properties of ZnO varistor ceramics modified by rare earth-yttrium and gallium dopants. Materials Letters, 2018, 233, 20-23.	2.6	17
134	Analysis and mitigation of low-frequency resonance in a long-distance UHVDC $\pm 1100$ kV system. Electric Power Systems Research, 2018, 162, 118-124.	3.6	7
135	Polypropylene-based ternary nanocomposites for recyclable high-voltage direct-current cable insulation. Composites Science and Technology, 2018, 165, 168-174.	7.8	48
136	A Fast Tree Algorithm for Electric Field Calculation in Electrical Discharge Simulations. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	5
137	Progress in eco-friendly high voltage cable insulation materials. , 2018, , .		4
138	Understanding surface charge accumulation and surface flashover on spacers in compressed gas insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1152-1166.	2.9	122
139	Advanced Dielectrics for Gas-Insulated Transmission Lines [Editorial]. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1151-1151.	2.9	8
140	Novel HVDC Spacers by Adaptively Controlling Surface Charges $\hat{\epsilon}$ Part I: Charge Transport and Control Strategy. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1238-1247.	2.9	89
141	Novel HVDC spacers by adaptively controlling surface charges $\hat{\epsilon}$ part ii: experiment. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1248-1258.	2.9	55
142	Novel HVDC spacers by adaptively controlling surface charges $\hat{\epsilon}$ part iii: industrialization prospects. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1259-1266.	2.9	36
143	Theoretical Study on Radio Interference of HVDC Transmission Line Based on Cage Tests. IEEE Transactions on Power Delivery, 2017, 32, 1891-1898.	4.3	7
144	Indium tailors the leakage current and voltage gradient of multiple dopant-based ZnO varistors. Ceramics International, 2017, 43, 4127-4130.	4.8	13

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145	Dynamic corona characteristics of water droplets on charged conductor surface. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 085201.	2.8	8
146	Surface charge migration and dc surface flashover of surface-modified epoxy-based insulators. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 065301.	2.8	127
147	Low-residual-voltage ZnO varistor ceramics improved by multiple doping with gallium and indium. <i>Materials Letters</i> , 2017, 195, 209-212.	2.6	9
148	Dependence of the average mobility of ions in air with pressure and humidity. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 923-929.	2.9	33
149	Evaluation of Lightning Current and Return Stroke Velocity Using Measured Far Electric Field Above a Horizontally Stratified Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017, 59, 1940-1948.	2.2	12
150	Tailoring low leakage current and high nonlinear coefficient of a Y-doped ZnO varistor by indium doping. <i>Materials Letters</i> , 2017, 188, 77-79.	2.6	30
151	Increased dielectric permittivity of poly(vinylidene fluoride-co-chlorotrifluoroethylene) nanocomposites by coating BaTiO <sub>3</sub> with functional groups owning high bond dipole moment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 560-570.	4.7	22
152	Effect of interfacial charge relaxation on conducting behavior of ZnO varistors under time varying electric fields. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	14
153	Assessment of HDPE aged under DC voltage combined with AC harmonic stresses of various frequencies. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 1189-1196.	2.9	7
154	Novel Method for Magnetic Field Vector Measurement Based on Dual-Axial Tunneling Magnetoresistive Sensors. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-6.	2.1	8
155	A Novel High-Performance Energy Harvester Based on Nonlinear Resonance for Scavenging Power-Frequency Magnetic Energy. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 6556-6564.	7.9	25
156	An Inversion Method for Evaluating Lightning Current Waveform Based on Time Series Neural Network. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017, 59, 887-893.	2.2	15
157	Dynamic characteristics of corona discharge generated under rainfall condition on AC charged conductors. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 505206.	2.8	10
158	Suppression of elevated temperature space charge accumulation in polypropylene/elastomer blends by deep traps induced by surface-modified ZnO nanoparticles. <i>Composites Science and Technology</i> , 2017, 153, 103-110.	7.8	42
159	Tailoring electrical properties of multiple dopant-based ZnO varistor by doping with yttrium, gallium, and indium. <i>Materials Letters</i> , 2017, 209, 413-416.	2.6	13
160	Remarkably improved electrical insulating performances of lightweight polypropylene nanocomposites with fullerene. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 455303.	2.8	44
161	The potentially neglected culprit of DC surface flashover: electron migration under temperature gradients. <i>Scientific Reports</i> , 2017, 7, 3271.	3.3	95
162	Synergistic effect of ZnO microspherical varistors and carbon fibers on nonlinear conductivity and mechanical properties of the silicone rubber-based material. <i>Composites Science and Technology</i> , 2017, 150, 187-193.	7.8	27

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163	Dynamics of branching of negative downward lightning leaders. Applied Physics Letters, 2017, 111, 224101.	3.3	11
164	A numerical model of acoustic wave caused by a single positive corona source. Physics of Plasmas, 2017, 24, .	1.9	16
165	Special issue of the IEEE transactions on dielectrics and electrical insulation on advanced dielectrics for gas-insulated transmission lines. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1973-1973.	2.9	0
166	Surface charge inversion algorithm based on bilateral surface potential measurements of cone-type spacer. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1905-1912.	2.9	30
167	Polymeric insulation materials for HVDC cables: Development, challenges and future perspective. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1308-1318.	2.9	154
168	Effect of different nanoparticles on tuning electrical properties of polypropylene nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1380-1389.	2.9	131
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551	Numerical Analysis of Resistivity Variation of Horizontal Multi-layer Earth and Its Application in Earthquake Prediction. , 0, , .		1
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553	Electric-Field Calculation for Hot-line Working on the Head of Transmission Tower. , 0, , .		0
554	Influence of Coke Bed on HVDC Grounding Electrode in Multilayer Soil. , 0, , .		5
555	Movement Simulation of Three-phase Short Circuit Arcs on Distribution Lines Based on the Coupling of Magnetic Field and Motion. , 0, , .		0
556	Calculation of Ion Flow Field under HVDC Bipolar Transmission Lines by Integral Equation Method. , 0, , .		1