

# Jinliang He

## List of Publications by Year in descending order

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556  
papers

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19657

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587  
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587  
docs citations

587  
times ranked

7810  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-Term Load Forecasting With Deep Residual Networks. IEEE Transactions on Smart Grid, 2019, 10, 3943-3952.	9.0	410
2	Polymer/molecular semiconductor all-organic composites for high-temperature dielectric energy storage. Nature Communications, 2020, 11, 3919.	12.8	268
3	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
4	Fault detection, classification and location for transmission lines and distribution systems: a review on the methods. High Voltage, 2016, 1, 25-33.	4.7	256
5	High Energy Density Polymer Dielectrics Interlayered by Assembled Boron Nitride Nanosheets. Advanced Energy Materials, 2019, 9, 1901826.	19.5	249
6	Cellulose/BaTiO <sub>3</sub> aerogel paper based flexible piezoelectric nanogenerators and the electric coupling with triboelectricity. Nano Energy, 2019, 57, 450-458.	16.0	188
7	Evaluation of polypropylene/polyolefin elastomer blends for potential recyclable HVDC cable insulation applications. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 673-681.	2.9	179
8	Self-healing of electrical damage in polymers using superparamagnetic nanoparticles. Nature Nanotechnology, 2019, 14, 151-155.	31.5	169
9	Interface-modulated nanocomposites based on polypropylene for high-temperature energy storage. Energy Storage Materials, 2020, 28, 255-263.	18.0	159
10	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
11	Fault Location in Power Distribution Systems via Deep Graph Convolutional Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 119-131.	14.0	149
12	Fluoro-polymer functionalized graphene for flexible ferroelectric polymer-based high-k nanocomposites with suppressed dielectric loss and low percolation threshold. Nanoscale, 2014, 6, 14740-14753.	5.6	142
13	Dielectric Modulated Cellulose Paper/PDMS-Based Triboelectric Nanogenerators for Wireless Transmission and Electropolymerization Applications. Advanced Functional Materials, 2020, 30, 1904536.	14.9	142
14	Energy Storage in Ferroelectric Polymer Nanocomposites Filled with Core-Shell Structured Polymer@BaTiO <sub>3</sub> Nanoparticles: Understanding the Role of Polymer Shells in the Interfacial Regions. ACS Applied Materials & Interfaces, 2014, 6, 19644-19654.	8.0	141
15	Strawberry-Like Core-Shell Ag@Polydopamine@BaTiO <sub>3</sub> Hybrid Nanoparticles for High-k Polymer Nanocomposites with High Energy Density and Low Dielectric Loss. Advanced Materials Interfaces, 2015, 2, 1500361.	3.7	141
16	Field-dependent charging phenomenon of HVDC spacers based on dominant charge behaviors. Applied Physics Letters, 2019, 114, .	3.3	141
17	The control mechanism of surface traps on surface charge behavior in alumina-filled epoxy composites. Journal Physics D: Applied Physics, 2016, 49, 445304.	2.8	131
18	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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19	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
20	A Current Sensor Based on the Giant Magnetoresistance Effect: Design and Potential Smart Grid Applications. <i>Sensors</i> , 2012, 12, 15520-15541.	3.8	124
21	Understanding surface charge accumulation and surface flashover on spacers in compressed gas insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 1152-1166.	2.9	122
22	Large Enhancement in Polarization Response and Energy Storage Properties of Poly(vinylidene fluoride)/Overlock 10 Tf 50 62 118, 831-838.	3.1	112
23	High dielectric and nonlinear electrical behaviors in TiO <sub>2</sub> -rich CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Applied Physics Letters</i> , 2006, 88, 172902.	3.3	110
24	Surface morphology and electrical characteristics of direct fluorinated epoxy-resin/alumina composite. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 3071-3077.	2.9	103
25	Grain boundary behavior in varistor-capacitor TiO <sub>2</sub> -rich CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	102
26	The potentially neglected culprit of DC surface flashover: electron migration under temperature gradients. <i>Scientific Reports</i> , 2017, 7, 3271.	3.3	95
27	Effective Length of Counterpoise Wire Under Lightning Current. <i>IEEE Transactions on Power Delivery</i> , 2005, 20, 1585-1591.	4.3	94
28	Surface-modified MgO nanoparticle enhances the mechanical and direct-current electrical characteristics of polypropylene/polyolefin elastomer nanodielectrics. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	94
29	Grain and grain boundary effects in high-permittivity dielectric NiO-based ceramics. <i>Applied Physics Letters</i> , 2006, 89, 032907.	3.3	91
30	Polymer dielectrics sandwiched by medium-dielectric-constant nanoscale deposition layers for high-temperature capacitive energy storage. <i>Energy Storage Materials</i> , 2021, 42, 445-453.	18.0	91
31	Novel HVDC Spacers by Adaptively Controlling Surface Charges – Part I: Charge Transport and Control Strategy. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 1238-1247.	2.9	89
32	Influence of functionalized MgO nanoparticles on electrical properties of polyethylene nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 1512-1519.	2.9	88
33	Photoresponsive Self-Healing Polymer Composite with Photoabsorbing Hybrid Microcapsules. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25546-25552.	8.0	88
34	Statistical Analysis on Lightning Performance of Transmission Lines in Several Regions of China. <i>IEEE Transactions on Power Delivery</i> , 2015, 30, 1543-1551.	4.3	86
35	Insulating materials for realising carbon neutrality: Opportunities, remaining issues and challenges. <i>High Voltage</i> , 2022, 7, 610-632.	4.7	85
36	Hydrangea-like zinc oxide superstructures for ferroelectric polymer composites with high thermal conductivity and high dielectric constant. <i>Composites Science and Technology</i> , 2015, 107, 67-74.	7.8	84

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37	Increasing the Energy Efficiency and Breakdown Strength of High-Energy-Density Polymer Nanocomposites by Engineering the Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> Nanowire Surface via Reversible Addition–Fragmentation Chain Transfer Polymerization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25307-25318.	3.1	83
38	Direct Detection of Local Electric Polarization in the Interfacial Region in Ferroelectric Polymer Nanocomposites. <i>Advanced Materials</i> , 2019, 31, e1807722.	21.0	81
39	Mechanism of highly improved electrical properties in polypropylene by chemical modification of grafting maleic anhydride. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 415301.	2.8	80
40	Scale- and Context-Aware Convolutional Non-Intrusive Load Monitoring. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 2362-2373.	6.5	79
41	Vibration and Audible Noise Characteristics of AC Transformer Caused by HVDC System Under Monopole Operation. <i>IEEE Transactions on Power Delivery</i> , 2012, 27, 1835-1842.	4.3	78
42	Large improvement in trap level and space charge distribution of polypropylene by enhancing the crystalline–amorphous interface effect in blends. <i>Polymer International</i> , 2016, 65, 371-379.	3.1	77
43	Local Dielectric Property Detection of the Interface between Nanoparticle and Polymer in Nanocomposite Dielectrics. <i>Scientific Reports</i> , 2016, 6, 38978.	3.3	77
44	Detection and Classification of Transmission Line Faults Based on Unsupervised Feature Learning and Convolutional Sparse Autoencoder. <i>IEEE Transactions on Smart Grid</i> , 2016, , 1-1.	9.0	76
45	Charge cluster triggers unpredictable insulation surface flashover in pressurized SF <sub>6</sub> . <i>Journal Physics D: Applied Physics</i> , 2021, 54, 015308.	2.8	76
46	Discussions on Nonuniformity of Energy Absorption Capabilities of ZnO Varistors. <i>IEEE Transactions on Power Delivery</i> , 2007, 22, 1523-1532.	4.3	74
47	Suppression of surface charge accumulation on Al <sub>2</sub> O <sub>3</sub> -filled epoxy resin insulator under dc voltage by direct fluorination. <i>AIP Advances</i> , 2015, 5, .	1.3	74
48	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
49	Lightning Impulse Performances of Grounding Grids for Substations Considering Soil Ionization. <i>IEEE Transactions on Power Delivery</i> , 2008, 23, 667-675.	4.3	72
50	Parameter Estimation of Horizontal Multilayer Earth by Complex Image Method. <i>IEEE Transactions on Power Delivery</i> , 2005, 20, 1394-1401.	4.3	71
51	A Nonintrusive Power Supply Design for Self-Powered Sensor Networks in the Smart Grid by Scavenging Energy From AC Power Line. <i>IEEE Transactions on Industrial Electronics</i> , 2015, 62, 4398-4407.	7.9	71
52	Core@Double-Shell Structured Nanocomposites: A Route to High Dielectric Constant and Low Loss Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25496-25507.	8.0	70
53	Convolutional sequence to sequence non-intrusive load monitoring. <i>Journal of Engineering</i> , 2018, 2018, 1860-1864.	1.1	70
54	Survey of recent progress on lightning and lightning protection research. <i>High Voltage</i> , 2016, 1, 2-10.	4.7	68

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55	Dielectric and nonlinear electrical behaviors observed in Mn-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic. Applied Physics Letters, 2007, 91, 252905.	3.3	67
56	Understanding the Percolation Characteristics of Nonlinear Composite Dielectrics. Scientific Reports, 2016, 6, 30597.	3.3	67
57	A Framework for Automatically Extracting Overvoltage Features Based on Sparse Autoencoder. IEEE Transactions on Smart Grid, 2018, 9, 594-604.	9.0	67
58	Gas-solid interface charge characterisation techniques for HVDC GIS/GIL insulators. High Voltage, 2020, 5, 95-109.	4.7	64
59	Laboratory investigation of impulse characteristics of transmission tower grounding devices. IEEE Transactions on Power Delivery, 2003, 18, 994-1001.	4.3	63
60	Titanium oxide nanoparticle increases shallow traps to suppress space charge accumulation in polypropylene dielectrics. RSC Advances, 2016, 6, 48720-48727.	3.6	63
61	Autonomous Self-Healing of Electrical Degradation in Dielectric Polymers Using In Situ Electroluminescence. Matter, 2020, 2, 451-463.	10.0	63
62	Novel HVDC spacers by adaptively controlling surface charges - part ii: experiment. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1248-1258.	2.9	55
63	Sintering Temperature Dependence of Grain Boundary Resistivity in a Rare-Earth-Doped ZnO Varistor. Journal of the American Ceramic Society, 2007, 90, 291-294.	3.8	54
64	Thermoplastic polypropylene/aluminum nitride nanocomposites with enhanced thermal conductivity and low dielectric loss. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2768-2776.	2.9	54
65	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
66	The Effect of Aluminum on Electrical Properties of ZnO Varistors. Journal of the American Ceramic Society, 2010, 93, 2441-2444.	3.8	52
67	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
68	Dielectric and nonlinear electrical behaviors of La-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. Journal of Applied Physics, 2009, 106, .	2.5	51
69	Surface modification effect of MgO nanoparticles on the electrical properties of polypropylene nanocomposite. High Voltage, 2020, 5, 249-255.	4.7	51
70	Numerical analysis of transient performance of grounding systems considering soil ionization by coupling moment method with circuit theory. IEEE Transactions on Magnetics, 2005, 41, 1440-1443.	2.1	50
71	Identification of Partial Discharge Defects Based on Deep Learning Method. IEEE Transactions on Power Delivery, 2019, 34, 1557-1568.	4.3	50
72	Evaluation of the Effective Protection Distance of Low-Voltage SPD to Equipment. IEEE Transactions on Power Delivery, 2005, 20, 123-130.	4.3	49

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73	ZnO microvaristors doped polymer composites with electrical field dependent nonlinear conductive and dielectric characteristics. <i>Materials Letters</i> , 2016, 171, 1-4.	2.6	49
74	Grading electric field in high voltage insulation using composite materials. <i>IEEE Electrical Insulation Magazine</i> , 2018, 34, 15-25.	0.8	49
75	Numerical Analysis of DC Current Distribution in AC Power System Near HVDC System. <i>IEEE Transactions on Power Delivery</i> , 2008, 23, 960-965.	4.3	48
76	Effects of cobalt doping on the electrical characteristics of Al-doped ZnO varistors. <i>Materials Letters</i> , 2010, 64, 1081-1084.	2.6	48
77	Improving electrical properties of multiple dopant ZnO varistor by doping with indium and gallium. <i>Ceramics International</i> , 2018, 44, 1168-1171.	4.8	48
78	Polypropylene-based ternary nanocomposites for recyclable high-voltage direct-current cable insulation. <i>Composites Science and Technology</i> , 2018, 165, 168-174.	7.8	48
79	Seasonal influences on safety of substation grounding system. <i>IEEE Transactions on Power Delivery</i> , 2003, 18, 788-795.	4.3	47
80	ZnO varistors with high voltage gradient and low leakage current by doping rare-earth oxide. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 693-701.	0.9	47
81	Progress in Lightning Impulse Characteristics of Grounding Electrodes With Soil Ionization. <i>IEEE Transactions on Industry Applications</i> , 2015, 51, 4924-4933.	4.9	47
82	Tailored ferroelectric responses and enhanced energy density in PVDF-based homopolymer/terpolymer blends. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	46
83	Self-Healing of Electrical Damage in Polymers. <i>Advanced Science</i> , 2020, 7, 2002131.	11.2	46
84	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
85	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
86	Effective Protection Distances of Low-Voltage SPD With Different Voltage Protection Levels. <i>IEEE Transactions on Power Delivery</i> , 2010, 25, 187-195.	4.3	44
87	Electrical degradation of double-Schottky barrier in ZnO varistors. <i>AIP Advances</i> , 2016, 6, .	1.3	44
88	Enhanced breakdown strength and energy density in PVDF nanocomposites with functionalized MgO nanoparticles. <i>RSC Advances</i> , 2016, 6, 33599-33605.	3.6	44
89	Remarkably improved electrical insulating performances of lightweight polypropylene nanocomposites with fullerene. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 455303.	2.8	44
90	Fractal simulation of soil breakdown under lightning current. <i>Journal of Electrostatics</i> , 2004, 61, 197-207.	1.9	43

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91	Calculation of DC current distribution in AC power system near HVDC system by using moment method coupled to circuit equations. IEEE Transactions on Magnetics, 2006, 42, 703-706.	2.1	43
92	Finite Volume-Based Approach for the Hybrid Ion-Flow Field of UHVAC and UHVDC Transmission Lines in Parallel. IEEE Transactions on Power Delivery, 2011, 26, 2809-2820.	4.3	42
93	Suppression of elevated temperature space charge accumulation in polypropylene/elastomer blends by deep traps induced by surface-modified ZnO nanoparticles. Composites Science and Technology, 2017, 153, 103-110.	7.8	42
94	Achieving high dielectric permittivity, high breakdown strength and high efficiency by cross-linking of poly(vinylidene fluoride)/BaTiO <sub>3</sub> nanocomposites. Composites Science and Technology, 2019, 169, 142-150.	7.8	42
95	Origins and effects of deep traps in functional group grafted polymeric dielectric materials. Journal Physics D: Applied Physics, 2020, 53, 475301.	2.8	42
96	Electric and Dielectric Behaviors of Y <sup>3+</sup> -Doped Calcium Copper Titanate. Journal of the American Ceramic Society, 2010, 93, 3043-3045.	3.8	41
97	Probabilistic short-term wind power forecasting based on deep neural networks. , 2016, , .		41
98	Study on Restraining DC Neutral Current of Transformer During HVDC Monopolar Operation. IEEE Transactions on Power Delivery, 2011, 26, 2785-2791.	4.3	40
99	Non-uniform ageing behavior of individual grain boundaries in ZnO varistor ceramics. Journal of the European Ceramic Society, 2011, 31, 1451-1456.	5.7	40
100	Analysis of Transient Performance of Grounding System Considering Soil Ionization by Time Domain Method. IEEE Transactions on Magnetics, 2013, 49, 1837-1840.	2.1	40
101	Lightning Impulse Performances of Grounding Devices Covered With Low-Resistivity Materials. IEEE Transactions on Power Delivery, 2006, 21, 1706-1713.	4.3	39
102	Thermal Stabilization Effect of Al <sub>2</sub> O <sub>3</sub> nano-dopants improves the high-temperature dielectric performance of polyimide. Scientific Reports, 2015, 5, 16986.	3.3	38
103	Optimal Design of Grounding System Considering the Influence of Seasonal Frozen Soil Layer. IEEE Transactions on Power Delivery, 2005, 20, 107-115.	4.3	36
104	Hysteretic Modeling of Output Characteristics of Giant Magnetoresistive Current Sensors. IEEE Transactions on Industrial Electronics, 2015, 62, 516-524.	7.9	36
105	Novel HVDC spacers by adaptively controlling surface charges – part iii: industrialization prospects. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1259-1266.	2.9	36
106	A new method to decrease ground resistances of substation grounding systems in high resistivity regions. IEEE Transactions on Power Delivery, 1999, 14, 911-916.	4.3	35
107	Current-voltage characteristics of dc corona discharges in air between coaxial cylinders. Physics of Plasmas, 2015, 22, .	1.9	35
108	Lightning Impulse Corona Characteristic of 1000-kV UHV Transmission Lines and Its Influences on Lightning Overvoltage Analysis Results. IEEE Transactions on Power Delivery, 2013, 28, 2518-2525.	4.3	34

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109	Tailoring the nonlinear conducting behavior of silicone composites by ZnO microvaristor fillers. Journal of Applied Polymer Science, 2015, 132, .	2.6	34
110	High Nonlinearity and High Voltage Gradient ZnO Varistor Ceramics Tailored by Combining Ga <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , and Y <sub>2</sub> O <sub>3</sub> Dopants. Journal of the American Ceramic Society, 2016, 99, 769-772.	3.8	34
111	Learning-based data analytics: Moving towards transparent power grids. CSEE Journal of Power and Energy Systems, 2018, 4, 67-82.	1.1	34
112	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
113	Analysis of Electromagnetic Interference on DC Line From Parallel AC Line in Close Proximity. IEEE Transactions on Power Delivery, 2007, 22, 2401-2408.	4.3	33
114	AC ageing characteristics of Y <sub>2</sub> O <sub>3</sub> -doped ZnO varistors with high voltage gradient. Materials Letters, 2011, 65, 2595-2597.	2.6	33
115	Measurement of positive direct current corona pulse in coaxial wire-cylinder gap. Physics of Plasmas, 2014, 21, .	1.9	33
116	Dependence of the average mobility of ions in air with pressure and humidity. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 923-929.	2.9	33
117	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
118	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
119	Numerical Analysis of the Influence Between Large Grounding Grids and Two-End Grounded Cables by the Moment Method Coupled With Circuit Equations. IEEE Transactions on Power Delivery, 2005, 20, 731-737.	4.3	32
120	New Mathematical Descriptions of ESD Current Waveform Based on the Polynomial of Pulse Function. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 589-591.	2.2	32
121	Electric field calculation for HV insulators on the head of transmission tower by coupling CSM with BEM. IEEE Transactions on Magnetics, 2006, 42, 543-546.	2.1	32
122	Fluorine gas treatment improves surface degradation inhibiting property of alumina-filled epoxy composite. AIP Advances, 2016, 6, .	1.3	32
123	Mapping the Space Charge at Nanoscale in Dielectric Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2020, 12, 53425-53434.	8.0	32
124	Improved High-Temperature Electrical Properties of Polymeric Material by Grafting Modification. ACS Sustainable Chemistry and Engineering, 2022, 10, 8685-8693.	6.7	32
125	Novel Measurement System for Grounding Impedance of Substation. IEEE Transactions on Power Delivery, 2006, 21, 719-725.	4.3	31
126	Specific characteristics of negative corona currents generated in short point-plane gap. Physics of Plasmas, 2013, 20, .	1.9	31



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127	Contactless Current Sensors Based on Magnetic Tunnel Junction for Smart Grid Applications. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	31
128	Self-healing of electrical damage in thermoset polymers via anionic polymerization. Journal of Materials Chemistry C, 2020, 8, 6025-6033.	5.5	31
129	Novel method of corrosion diagnosis for grounding grid. , 0, , .		30
130	Decreasing Grounding Resistance of Substation by Deep-Ground-Well Method. IEEE Transactions on Power Delivery, 2005, 20, 738-744.	4.3	30
131	Tailoring low leakage current and high nonlinear coefficient of a Y-doped ZnO varistor by indium doping. Materials Letters, 2017, 188, 77-79.	2.6	30
132	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
133	Numerical Analysis of Electric-Field Distribution Around Composite Insulator and Head of Transmission Tower. IEEE Transactions on Power Delivery, 2006, 21, 959-965.	4.3	29
134	Onset conditions for positive direct current corona discharges in air under the action of photoionization. Physics of Plasmas, 2011, 18, .	1.9	29
135	High voltage gradient and low residual-voltage ZnO varistor ceramics tailored by doping with In <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> . Ceramics International, 2016, 42, 19437-19440.	4.8	29
136	Method of interturn fault detection for next-generation smart transformers based on deep learning algorithm. High Voltage, 2019, 4, 282-291.	4.7	29
137	Potential distribution analysis of suspended-type metal-oxide surge arresters. IEEE Transactions on Power Delivery, 2003, 18, 1214-1220.	4.3	28
138	Electric and dielectric properties of Bi-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. Journal of Applied Physics, 2009, 105, .	2.5	28
139	Switching Transient of 1000-kV UHV System Considering Detailed Substation Structure. IEEE Transactions on Power Delivery, 2012, 27, 112-122.	4.3	28
140	Breakdown Process Experiments of 110- to 500-kV Insulator Strings Under Short Tail Lightning Impulse. IEEE Transactions on Power Delivery, 2014, 29, 2394-2401.	4.3	28
141	Improving age stability and energy absorption capabilities of ZnO varistors ceramics. Ceramics International, 2016, 42, 17880-17883.	4.8	28
142	Tuning the potential distribution of AC cable terminals by stress cone of nonlinear conductivity material. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2686-2693.	2.9	28
143	Multilayered ferroelectric polymer composites with high energy density at elevated temperature. Composites Science and Technology, 2021, 202, 108594.	7.8	28
144	Movement simulation of long electric arc along the surface of insulator string in free air. IEEE Transactions on Magnetics, 2006, 42, 1359-1362.	2.1	27

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145	Discussion on the Deutsch Assumption in the Calculation of Ion-Flow Field Under HVDC Bipolar Transmission Lines. IEEE Transactions on Power Delivery, 2010, 25, 2759-2767.	4.3	27
146	Magnetic energy harvesting properties of piezofiber bimorph/NdFeB composites. Applied Physics Letters, 2014, 104, .	3.3	27
147	Tailoring the high-impulse current discharge capability of ZnO varistor ceramics by doping with Ga <sub>2</sub> O <sub>3</sub> . Ceramics International, 2016, 42, 5582-5586.	4.8	27
148	Synergistic effect of ZnO microspherical varistors and carbon fibers on nonlinear conductivity and mechanical properties of the silicone rubber-based material. Composites Science and Technology, 2017, 150, 187-193.	7.8	27
149	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
150	Novel zinc-oxide varistor with superior performance in voltage gradient and aging stability for surge arrester. Journal of Alloys and Compounds, 2019, 789, 948-952.	5.5	27
151	Experimental Studies of Impulse Breakdown Delay Characteristics of Soil. IEEE Transactions on Power Delivery, 2011, 26, 1600-1607.	4.3	26
152	A Comprehensive Approach for Transient Performance of Grounding System in the Time Domain. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 250-256.	2.2	26
153	High nonlinearity and low residual-voltage ZnO varistor ceramics by synchronously doping Ga <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> . Materials Letters, 2016, 164, 80-83.	2.6	26
154	Modeling of Trichel Pulses in the Negative Corona on a Line-to-Plane Geometry. IEEE Transactions on Magnetics, 2014, 50, 473-476.	2.1	25
155	Derivations of Effective Length Formula of Vertical Grounding Rods and Horizontal Grounding Electrodes Based on Physical Phenomena of Lightning Surge Propagations. IEEE Transactions on Industry Applications, 2015, 51, 4934-4942.	4.9	25
156	Performance of Shipboard Medium-Voltage DC System of Various Grounding Modes Under Monopole Ground Fault. IEEE Transactions on Industry Applications, 2015, 51, 5002-5009.	4.9	25
157	A Novel High-Performance Energy Harvester Based on Nonlinear Resonance for Scavenging Power-Frequency Magnetic Energy. IEEE Transactions on Industrial Electronics, 2017, 64, 6556-6564.	7.9	25
158	Effect of different surface treatment agents on the physical chemistry and electrical properties of polyethylene nano- $\alpha$ -alumina nanocomposites. High Voltage, 2020, 5, 397-402.	4.7	25
159	Grounding Resistance Measurement Analysis of Grounding System in Vertical-Layered Soil. IEEE Transactions on Power Delivery, 2004, 19, 1553-1559.	4.3	24
160	Influence of humidity on the characteristics of positive corona discharge in air. Physics of Plasmas, 2016, 23, .	1.9	24
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