

Yewen Zhang

List of Publications by Year in descending order

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138
papers

1,271
citations

471509

17
h-index

414414

32
g-index

139
all docs

139
docs citations

139
times ranked

722
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of strong correlation between space-charge buildup and breakdown in cable insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 1996, 3, 778-783.	2.9	292
2	Improved DC flashover performance of epoxy insulators in SF ₆ gas by direct fluorination. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1153-1161.	2.9	71
3	Suppression effect of surface fluorination on charge injection into linear low density polyethylene. Journal of Applied Physics, 2009, 105, .	2.5	69
4	Electromagnetically induced transparency in metamaterials: Influence of intrinsic loss and dynamic evolution. Physical Review B, 2011, 83, .	3.2	51
5	Influence of oxyfluorination time on space charge behavior in polyethylene. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 1814-1823.	2.9	49
6	Rapid potential decay on surface fluorinated epoxy resin samples. Journal of Applied Physics, 2013, 113, 164105.	2.5	41
7	Characteristics and electrical properties of epoxy resin surface layers fluorinated at different temperatures. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1859-1868.	2.9	36
8	Significant suppression of space charge injection into linear low density polyethylene by surface oxyfluorination. Journal of Applied Physics, 2009, 106, .	2.5	32
9	Numerical analysis of packetlike charge behavior in low-density polyethylene by a Gunn effectlike model. Journal of Applied Physics, 2011, 109, .	2.5	30
10	Improved resistance of epoxy resin to corona discharge by direct fluorination. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2278-2287.	2.9	29
11	Experimental investigation on zero- $\tilde{\text{eff}}$ gaps of photonic crystals containing single-negative materials. European Physical Journal B, 2008, 62, 1-6.	1.5	27
12	Carrier mobility in ethylene-vinylacetate copolymer estimated by transient space charge. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 849-853.	2.9	24
13	Thermal pulse measurements of space charge distributions under an applied electric field in thin films. Measurement Science and Technology, 2013, 24, 065603.	2.6	24
14	Influence of rare-earth addition on dielectric properties and relaxor behavior of barium zirconium titanate thin films. Journal of Applied Physics, 2010, 107, .	2.5	22
15	Realizing Tunable Inverse and Normal Doppler Shifts in Reconfigurable RF Metamaterials. Scientific Reports, 2015, 5, 11659.	3.3	21
16	Space charge characterization in biaxially oriented polypropylene films. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3102-3107.	2.9	21
17	Multichanneled filter based on a branchy defect in microstrip photonic crystal. Applied Physics Letters, 2006, 88, 081106.	3.3	19
18	High resistance of surface fluorinated epoxy insulators to surface discharge in SF ₆ gas. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 245-252.	2.9	17

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19	Highly localized mode in a pair structure made of epsilon-negative and mu-negative metamaterials. Journal of Applied Physics, 2008, 104, 013107.	2.5	16
20	Improved piezoelectric properties of cellular polypropylene ferroelectrets by chemical modification. Applied Physics A: Materials Science and Processing, 2009, 95, 801-806.	2.3	15
21	Unusual effect of temperature on direct fluorination of high temperature vulcanized silicone rubber and properties of the fluorinated surface layers. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 190-198.	2.9	15
22	Impact of interface between polyethylene and surface fluorinated polyethylene on space charge accumulation in the layered structures. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 339-336.	2.9	13
23	Resistance to corona discharge of HTV silicone rubber surface layers fluorinated at different temperatures. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 729-740.	2.9	13
24	Action of space charge on aging and breakdown of polymers. Science Bulletin, 2001, 46, 796-800.	1.7	12
25	Methodological investigation on photo-stimulated discharge to obtain accurate trap information in polymer dielectrics. Measurement Science and Technology, 2011, 22, 085109.	2.6	12
26	A method to observe fast dynamic space charge in thin dielectric films. Applied Physics Letters, 2012, 101, .	3.3	12
27	Evolutions of surface characteristics and electrical properties of the fluorinated epoxy resin during ultraviolet irradiation. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1124-1133.	2.9	12
28	Homogeneous deposition of Ni(OH) ₂ onto cellulose-derived carbon aerogels for low-cost energy storage electrodes. RSC Advances, 2017, 7, 10583-10591.	3.6	12
29	Highly hydrophobic and partially conductive polydimethylsiloxane surface produced by direct fluorination and subsequent annealing. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2968-2977.	2.9	11
30	Resistance of surface fluorinated epoxy resin to corona discharge in SF ₆ gas. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3659-3667.	2.9	11
31	Novel numerical methods for measuring distributions of space charge and electric field in solid dielectrics with deconvolution algorithm. IEEE Transactions on Dielectrics and Electrical Insulation, 2005, 12, 809-814.	2.9	10
32	Effect of applied mechanical stress on space charge breakdown in electron beam irradiated polymethyl methacrylate. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 965-973.	2.9	10
33	Morphology-related packetlike space charge behavior in linear low-density polyethylene doped with Al ₂ O ₃ nanoparticles. Journal of Applied Polymer Science, 2009, 112, 3103-3109.	2.6	10
34	Calibration of the laser induced pressure pulse method when using a semiconducting electrode as the laser target. Measurement Science and Technology, 2016, 27, 025003.	2.6	10
35	Interface electric field of carbon black loaded electrode and its significant influence on charge injection into polyethylene. Journal of Applied Polymer Science, 2012, 123, 3017-3022.	2.6	9
36	Reduction of space charge breakdown in e-beam irradiated nano/polymethyl methacrylate composites. Applied Physics Letters, 2013, 102, .	3.3	9

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37	Influence of oxygen impurity in fluorinating mixtures on charge blocking properties of fluorinated surface layer of polyethylene. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 303-310.	2.9	9
38	Investigation of surface and bulk charge traps of polyimide film by using the photo-stimulated discharge method. Europhysics Letters, 2015, 109, 27006.	2.0	9
39	A novel filter based on zeroth-order resonance by means of CRLH transmission line. Microwave and Optical Technology Letters, 2007, 49, 1015-1018.	1.4	8
40	Simplified description of asymmetric right-handed composite right/left-handed coupler in microstrip chip technology. Microwave and Optical Technology Letters, 2007, 49, 2063-2068.	1.4	7
41	Light tunneling effect tuned by a meta-interface with electromagnetically-induced-transparency-like properties. Applied Physics Letters, 2013, 102, .	3.3	7
42	Fast space charge behavior in heat-treated polypropylene films. Journal of Applied Polymer Science, 2015, 132, .	2.6	7
43	Space Charge Measurements in Thin Bilayer BOPP Films by Thermal Pulse Method. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 406-413.	2.9	7
44	A combined system of piezo-PWP/PEA methods for measuring space charge distribution in solid dielectrics. , 0, , .		6
45	Photo-stimulated discharge current in polyimide films. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1802-1808.	2.9	6
46	Frequency Mixer Based on Doppler Effect. IEEE Microwave and Wireless Components Letters, 2018, 28, 43-45.	3.2	6
47	Electret properties for porous polytetrafluoroethylene (PTFE) film. , 0, , .		5
48	Space charge breakdown in PMMA without applied field. , 2005, , .		5
49	Charge injection and charge separation as revealed by dynamic space charge measurement in poly(propylene-ethylene) copolymer films. Journal of Applied Physics, 2008, 104, .	2.5	5
50	A novel method for distribution of trap levels in dielectric by photo-stimulated discharge. , 2010, , .		5
51	Thermal pulse method with an applied field. , 2013, , .		5
52	Analysis and interpretation of photo-stimulated discharge spectrum for polypropylene films under different electric and geometrical conditions. Journal of Electrostatics, 2016, 84, 128-134.	1.9	5
53	Pressure wave propagation method for space charge measurement in coaxial geometry. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2139-2146.	2.9	5
54	Corona aging and hydrophobicity of surface fluorinated silicone rubbers. , 2016, , .		4

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55	Preparing and polarizing stability of Teflon AF nonlinear optical polymer electret double layer film system. IEEE Transactions on Dielectrics and Electrical Insulation, 1999, 6, 831-834.	2.9	3
56	Ku-band low side-lobe level fixed-frequency electrically scanning leaky-wave antenna. Microwave and Optical Technology Letters, 2016, 58, 2512-2516.	1.4	3
57	Retrieval of charge mobility from apparent charge packet movements in LDPE thin films. Europhysics Letters, 2017, 117, 67003.	2.0	3
58	Charge mobility retrieval approach from apparent charge packet movements based on the negative differential resistance theory. Scientific Reports, 2018, 8, 5928.	3.3	3
59	Measurement of Thermal Diffusivity of thin Films by Thermal Pulse Method. , 2018, , .		3
60	Space Charge Measurement System Based on Laser PWP Method for the Full-size Long HVDC Cable. , 2018, , .		3
61	Space Charge Data Analysis for Thermal Pulse Method. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1966-1972.	2.9	3
62	Thermal Diffusivity Measurement in Through-Thickness Direction of Dielectric Film With Metal Substrate. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 38-46.	2.9	3
63	Research of space charge in solid dielectrics in China. , 0, , .		2
64	Relationship between Applied Mechanical Stress and Space Charge Breakdown. , 2006, , .		2
65	Space charge dynamics in electron beam-irradiated PMMA. Frontiers of Materials Science in China, 2007, 1, 109-113.	0.5	2
66	Study on measuring method of dielectric spectroscopy for polymer dielectrics. , 2009, , .		2
67	Numerical analysis of various space charge packet behaviors in low-density polyethylene under different high DC voltage. , 2009, , .		2
68	Study on the recombination rate of space charge in LDPE film during the short-circuit discharge process by photon calculation. , 2009, , .		2
69	Study of ultra-fast space charge in thin dielectric films. , 2013, , .		2
70	Effective modulation of surface conductivity of epoxy resin insulators by direct fluorination. , 2013, , .		2
71	Tuning the hybridization bandgap by meta-molecules with in-unit interaction. Journal of Applied Physics, 2015, 118, .	2.5	2
72	Significantly enhanced surface electrical conduction of poly(butylene terephthalate) insulators by direct fluorination. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 517-524.	2.9	2

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73	Comparison of space charge distribution measurements among planar sample, HVDC Cable on external layer and from inner conductor by Laser PWP method. , 2017, , .		2
74	Study of the Influence of Surface Resistivity while Measuring Space Charge in HVDC Cable with LIPP Method. , 2018, , .		2
75	Flashover performance and arc resistance of surface fluorinated epoxy insulators. , 2018, , .		2
76	Measurement of Space Charge Distribution for Real Long HV Cable and Uncertainties in Space Charge Measurement. , 2019, , .		2
77	Measurement of Thermal Diffusivity of Thin Film in Thickness Direction Using an Ordinary Dielectric Film as the Sensor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	2
78	Space charge packet behavior in low density polyethylene. , 0, , .		1
79	A Physical Model about the Space Charge Packet Phenomenon in Low-Density Polyethylene. , 2006, , .		1
80	Investigation on abnormal group velocities in 1D coaxial photonic crystals. Science Bulletin, 2006, 51, 1281-1286.	1.7	1
81	Electric field and porosity dependent permittivity in electron beam irradiated PMMA. , 2008, , .		1
82	Space charge behavior of linear low density polyethylene doped with some types of inorganic nano powder. , 2008, , .		1
83	Preliminary study on significantly improved charge stability of cellular polypropylene ferroelectrets by fluorination and subsequent isothermal crystallization. , 2009, , .		1
84	Study on charge trap distribution in LLDPE by photo-stimulated discharge current. , 2009, , .		1
85	Metamaterials-based high-gain planar antennas (invited paper). , 2012, , .		1
86	Photo-stimulated discharge of polyethylene charged under DC electric field or electron beam irradiation. , 2013, , .		1
87	Study on the Tunneling Mode in a Sub-Wavelength Open-Cavity Resonator Consisting of Single Negative Materials. IEEE Transactions on Antennas and Propagation, 2014, 62, 504-508.	5.1	1
88	Comparison between PEA and PWP method of space charge measurement in model cable. , 2015, , .		1
89	Design and experiment of an assembled magnetic metamaterials. , 2015, , .		1
90	Improvement of precise retrieval for charge mobility from charge packet measurements in LLDPE films. , 2016, , .		1

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91	Magnetic polarizability of planar extremely subwavelength Mu-negative metamaterials. , 2017, , .		1
92	Charge Mobility in Biaxially Oriented Polypropylene Films. , 2018, , .		1
93	Study of the Influence of Surface Resistivity while Measuring Space Charge in HVDC Cable with LIPP Method. , 2018, , .		1
94	Space Charge Measurement System for High Hydrostatic Pressure Based on PIPWP Method. , 2018, , .		1
95	Charge Mobility in Biaxially Oriented Polypropylene Films. , 2018, , .		1
96	Space charge in polyethylene and surface fluoridized polyethylene samples under DC high voltage application with long time. , 2018, , .		1
97	The study of the open-circuit thermally stimulated discharge on the guest-host nonlinear optical polymer electret DR1/PMMA film. , 0, , .		0
98	New numerical deconvolution method for measuring space charge distribution in solid dielectrics. , 0, , .		0
99	Experimental Investigation of Tunable Defect Modes in the Comb-Like Photonic Crystals. , 0, , .		0
100	Effect of Electron Beam Radiation on Permittivity in PMMA. , 0, , .		0
101	A Novel Zeroth-order Filter Based on CRLH Transmission Line. , 2006, , .		0
102	Treeing-like Breakdown in Electronic Beam Irradiated LDPE with/without Nano-Powder Doping. , 2006, , .		0
103	Transmission Properties of ENG-MNG Structure Based On CRLH Transmission Line. , 2006, , .		0
104	Effect of Inorganic Oxide Nano Powder on Space Charge Breakdown Behavior in Electron Beam Irradiated Nano/PMMA Composites. , 2006, , .		0
105	Local Vortex Mode in Asymmetric Coupler Composed of Conventional Microstrip and Composite Right/Left-Handed Transmission Line with Lumped Elements. , 2007, , .		0
106	The transmission properties of one-dimensional photonic crystals containing indefinite metamaterials. , 2008, , .		0
107	Investigations of metamaterials for microwave frequency in time-domain. , 2008, , .		0
108	Use of dynamic space charge measurements to differentiate charge injection and ionic dissociation in polypropylene. , 2008, , .		0

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109	Study on piezoelectric properties of fluorinated polypropylene ferroelectrets by fluorine gas. , 2008, , .		0
110	Preliminary study for space charge behavior of different types of polyethylene resin. , 2008, , .		0
111	The tunneling mode in the photonic heterostructure consisting of single-negative materials. , 2008, , .		0
112	Primary research on luminescence during space charge detrapping and recombination in LDPE. , 2008, , .		0
113	Improved piezoelectric thermal stability of cellular polypropylene ferroelectrets by chemical modification. , 2008, , .		0
114	Astonishing suppression of oxyfluorination and significant influence of fluorination on charge injection to linear low density polyethylene. , 2009, , .		0
115	Space charge injection in LLDPE from electrode influenced by the interface state of material. , 2009, , .		0
116	Packet-like space charge dynamics in polyethylene with various crystallinity. , 2009, , .		0
117	Charge injection behaviors of surface oxyfluorinated linear low density polyethylene. , 2010, , .		0
118	Packet-like space charge dynamics in polyethylene with various crystallinity. , 2010, , .		0
119	Fluorinated cellular polypropylene films with time-invariant deep charge traps obtained by post-treatments. , 2010, , .		0
120	Time-domain measurement of group velocity in metamaterial perfect lens. , 2011, , .		0
121	The tunable defect modes in the comb-like photonic crystals. Microwave and Optical Technology Letters, 2011, 53, 1652-1656.	1.4	0
122	Design of one-dimensional composite right-/left-handed transmission line without protrudent stub inductors. , 2011, , .		0
123	Experimental research of surface plasmon polaritons waveguide filter in microwave band. Microwave and Optical Technology Letters, 2013, 55, 1531-1533.	1.4	0
124	The influence of polarizing field on an electroluminescence generated by LLDPE films. , 2013, , .		0
125	Migration of space charge in biaxially oriented polypropylene films. , 2016, , .		0
126	Experiment on impact of surface fluorinated semiconductor electrode on space charge injection of polyethylene upon high direct voltage condition. , 2016, , .		0

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127	Doppler effect in zero-index metamaterials. , 2016, , .		0
128	Investigation on resistance of the fluorinated epoxy surface layer to corona discharge in SF ₆ , 2016, , .		0
129	Study of microscopic electric field on contact surface in vacuum interrupters based on fractal theory. , 2016, , .		0
130	Fluorination mechanisms of silicone rubbers and surface properties. , 2017, , .		0
131	Magnetic polarizability of the metamaterials with negative permeability. , 2017, , .		0
132	Space Charge Measurement System for High Hydrostatic Pressure Based on PIPWP Method. , 2018, , .		0
133	Measurement of Thermal Diffusivity of thin Films by Thermal Pulse Method. , 2018, , .		0
134	Characterization of the Fluorinated Surface Layer of the Alumina-filled Epoxy Insulator. , 2019, , .		0
135	Designment of wireless power transmitting system with magnetic megahertz metamaterials. , 2019, , .		0
136	Wireless Power Transfer System Using Sub-Wavelength Toroidal Magnetic Metamaterials. , 2019, , .		0
137	A High-Power Wireless Charging System Based on Fano Resonance. , 2019, , .		0
138	Doppler effect based mixer for microwave frequency. , 2017, , .		0