

Yewen Zhang

List of Publications by Year in descending order

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138
papers

1,271
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471509

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139
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722
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Space Charge Data Analysis for Thermal Pulse Method. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1966-1972.	2.9	3
5	Measurement of Space Charge Distribution for Real Long HV Cable and Uncertainties in Space Charge Measurement. , 2019, , .		2
6	Characterization of the Fluorinated Surface Layer of the Alumina-filled Epoxy Insulator. , 2019, , .		0
7	Designment of wireless power transmitting system with magnetic megahertz metamaterials. , 2019, , .		0
8	Wireless Power Transfer System Using Sub-Wavelength Toroidal Magnetic Metamaterials. , 2019, , .		0
9	A High-Power Wireless Charging System Based on Fano Resonance. , 2019, , .		0
10	Charge mobility retrieval approach from apparent charge packet movements based on the negative differential resistance theory. Scientific Reports, 2018, 8, 5928.	3.3	3
11	Frequency Mixer Based on Doppler Effect. IEEE Microwave and Wireless Components Letters, 2018, 28, 43-45.	3.2	6
12	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
13	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
14	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
15	Space Charge Measurement System for High Hydrostatic Pressure Based on PIPWP Method. , 2018, , .		0
16	Measurement of Thermal Diffusivity of thin Films by Thermal Pulse Method. , 2018, , .		3
17	Charge Mobility in Biaxially Oriented Polypropylene Films. , 2018, , .		1
18	Study of the Influence of Surface Resistivity while Measuring Space Charge in HVDC Cable with LIPP Method. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
19	Space Charge Measurement System for High Hydrostatic Pressure Based on PIPWP Method. , 2018, , .		1
20	Study of the Influence of Surface Resistivity while Measuring Space Charge in HVDC Cable with LIPP Method. , 2018, , .		2
21	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
22	Charge Mobility in Biaxially Oriented Polypropylene Films. , 2018, , .		1
23	Measurement of Thermal Diffusivity of thin Films by Thermal Pulse Method. , 2018, , .		0
24	Space Charge Measurement System Based on Laser PWP Method for the Full-size Long HVDC Cable. , 2018, , .		3
25	Flashover performance and arc resistance of surface fluorinated epoxy insulators. , 2018, , .		2
26	Space charge in polyethylene and surface fluoridized polyethylene samples under DC high voltage application with long time. , 2018, , .		1
27	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
28	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
29	Retrieval of charge mobility from apparent charge packet movements in LDPE thin films. Europhysics Letters, 2017, 117, 67003.	2.0	3
30	Photo-stimulated discharge current in polyimide films. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1802-1808.	2.9	6
31	Magnetic polarizability of planar extremely subwavelength Mu-negative metamaterials. , 2017, , .		1
32	Fluorination mechanisms of silicone rubbers and surface properties. , 2017, , .		0
33	Magnetic polarizability of the metamaterials with negative permeability. , 2017, , .		0
34	Comparison of space charge distribution measurements among planar sample, HVDC Cable on external layer and from inner conductor by Laser PWP method. , 2017, , .		2
35	Doppler effect based mixer for microwave frequency. , 2017, , .		0
36	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

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37	Migration of space charge in biaxially oriented polypropylene films. , 2016, , .		0
38	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
39	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
40	Experiment on impact of surface fluorinated semiconductor electrode on space charge injection of polyethylene upon high direct voltage condition. , 2016, , .		0
41	Improvement of precise retrieval for charge mobility from charge packet measurements in LLDPE films. , 2016, , .		1
42	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
43	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
44	Doppler effect in zero-index metamaterials. , 2016, , .		0
45	Corona aging and hydrophobicity of surface fluorinated silicone rubbers. , 2016, , .		4
46	Space charge characterization in biaxially oriented polypropylene films. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3102-3107.	2.9	21
47	Investigation on resistance of the fluorinated epoxy surface layer to corona discharge in SF ₆ . , 2016, , .		0
48	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
49	Study of microscopic electric field on contact surface in vacuum interrupters based on fractal theory. , 2016, , .		0
50	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
51	Tuning the hybridization bandgap by meta-molecules with in-unit interaction. Journal of Applied Physics, 2015, 118, .	2.5	2
52	Fast space charge behavior in heat-treated polypropylene films. Journal of Applied Polymer Science, 2015, 132, .	2.6	7
53	Comparison between PEA and PWP method of space charge measurement in model cable. , 2015, , .		1
54	Design and experiment of an assembled magnetic metamaterials. , 2015, , .		1

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55	Investigation of surface and bulk charge traps of polyimide film by using the photo-stimulated discharge method. <i>Europhysics Letters</i> , 2015, 109, 27006.	2.0	9
56	Evolutions of surface characteristics and electrical properties of the fluorinated epoxy resin during ultraviolet irradiation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 1124-1133.	2.9	12
57	Realizing Tunable Inverse and Normal Doppler Shifts in Reconfigurable RF Metamaterials. <i>Scientific Reports</i> , 2015, 5, 11659.	3.3	21
58	Study on the Tunneling Mode in a Sub-Wavelength Open-Cavity Resonator Consisting of Single Negative Materials. <i>IEEE Transactions on Antennas and Propagation</i> , 2014, 62, 504-508.	5.1	1
59	Thermal pulse measurements of space charge distributions under an applied electric field in thin films. <i>Measurement Science and Technology</i> , 2013, 24, 065603.	2.6	24
60	Experimental research of surface plasmon polaritons waveguide filter in microwave band. <i>Microwave and Optical Technology Letters</i> , 2013, 55, 1531-1533.	1.4	0
61	Characteristics and electrical properties of epoxy resin surface layers fluorinated at different temperatures. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 1859-1868.	2.9	36
62	Study of ultra-fast space charge in thin dielectric films. , 2013, , .		2
63	Effective modulation of surface conductivity of epoxy resin insulators by direct fluorination. , 2013, , .		2
64	Light tunneling effect tuned by a meta-interface with electromagnetically-induced-transparency-like properties. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	7
65	Reduction of space charge breakdown in e-beam irradiated nano/polymethyl methacrylate composites. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	9
66	Impact of interface between polyethylene and surface fluorinated polyethylene on space charge accumulation in the layered structures. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 339-336.	2.9	13
67	The influence of polarizing field on an electroluminescence generated by LLDPE films. , 2013, , .		0
68	Rapid potential decay on surface fluorinated epoxy resin samples. <i>Journal of Applied Physics</i> , 2013, 113, 164105.	2.5	41
69	Photo-stimulated discharge of polyethylene charged under DC electric field or electron beam irradiation. , 2013, , .		1
70	Thermal pulse method with an applied field. , 2013, , .		5
71	Influence of oxygen impurity in fluorinating mixtures on charge blocking properties of fluorinated surface layer of polyethylene. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 303-310.	2.9	9
72	A method to observe fast dynamic space charge in thin dielectric films. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	12

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73	Metamaterials-based high-gain planar antennas (invited paper). , 2012, , .		1
74	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
75	Time-domain measurement of group velocity in metamaterial perfect lens. , 2011, , .		0
76	Electromagnetically induced transparency in metamaterials: Influence of intrinsic loss and dynamic evolution. Physical Review B, 2011, 83, .	3.2	51
77	The tunable defect modes in the comb-like photonic crystals. Microwave and Optical Technology Letters, 2011, 53, 1652-1656.	1.4	0
78	Numerical analysis of packetlike charge behavior in low-density polyethylene by a Gunn effectlike model. Journal of Applied Physics, 2011, 109, .	2.5	30
79	Methodological investigation on photo-stimulated discharge to obtain accurate trap information in polymer dielectrics. Measurement Science and Technology, 2011, 22, 085109.	2.6	12
80	Design of one-dimensional composite right-/left-handed transmission line without protrudent stub inductors. , 2011, , .		0
81	Charge injection behaviors of surface oxyfluorinated linear low density polyethylene. , 2010, , .		0
82	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
83	Packet-like space charge dynamics in polyethylene with various crystallinity. , 2010, , .		0
84	Influence of oxyfluorination time on space charge behavior in polyethylene. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 1814-1823.	2.9	49
85	Fluorinated cellular polypropylene films with time-invariant deep charge traps obtained by post-treatments. , 2010, , .		0
86	A novel method for distribution of trap levels in dielectric by photo-stimulated discharge. , 2010, , .		5
87	Suppression effect of surface fluorination on charge injection into linear low density polyethylene. Journal of Applied Physics, 2009, 105, .	2.5	69
88	Astonishing suppression of oxyfluorination and significant influence of fluorination on charge injection to linear low density polyethylene. , 2009, , .		0
89	Space charge injection in LLDPE from electrode influenced by the interface state of material. , 2009, , .		0
90	Significant suppression of space charge injection into linear low density polyethylene by surface oxyfluorination. Journal of Applied Physics, 2009, 106, .	2.5	32

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91	Morphology-related packetlike space charge behavior in linear low-density polyethylene doped with Al_2O_3 nanoparticles. Journal of Applied Polymer Science, 2009, 112, 3103-3109.	2.6	10
92	Improved piezoelectric properties of cellular polypropylene ferroelectrets by chemical modification. Applied Physics A: Materials Science and Processing, 2009, 95, 801-806.	2.3	15
93	Study on measuring method of dielectric spectroscopy for polymer dielectrics. , 2009, , .		2
94	Numerical analysis of various space charge packet behaviors in low-density polyethylene under different high DC voltage. , 2009, , .		2
95	Study on the recombination rate of space charge in LDPE film during the short-circuit discharge process by photon calculation. , 2009, , .		2
96	Packet-like space charge dynamics in polyethylene with various crystallinity. , 2009, , .		0
97	Preliminary study on significantly improved charge stability of cellular polypropylene ferroelectrets by fluorination and subsequent isothermal crystallization. , 2009, , .		1
98	Study on charge trap distribution in LLDPE by photo-stimulated discharge current. , 2009, , .		1
99	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
100	The transmission properties of one-dimensional photonic crystals containing indefinite metamaterials. , 2008, , .		0
101	Investigations of metamaterials for microwave frequency in time-domain. , 2008, , .		0
102	Electric field and porosity dependent permittivity in electron beam irradiated PMMA. , 2008, , .		1
103	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
104	Use of dynamic space charge measurements to differentiate charge injection and ionic dissociation in polypropylene. , 2008, , .		0
105	Space charge behavior of linear low density polyethylene doped with some types of inorganic nano powder. , 2008, , .		1
106	Study on piezoelectric properties of fluorinated polypropylene ferroelectrets by fluorine gas. , 2008, , .		0
107	Preliminary study for space charge behavior of different types of polyethylene resin. , 2008, , .		0
108	The tunneling mode in the photonic heterostructure consisting of single-negative materials. , 2008, , .		0

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109	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
110	Primary research on luminescence during space charge detrapping and recombination in LDPE. , 2008, , .		0
111	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
112	Improved piezoelectric thermal stability of cellular polypropylene ferroelectrets by chemical modification. , 2008, , .		0
113	Local Vortex Mode in Asymmetric Coupler Composed of Conventional Microstrip and Composite Right/Left-Handed Transmission Line with Lumped Elements. , 2007, , .		0
114	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
115	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
116	Space charge dynamics in electron beam-irradiated PMMA. Frontiers of Materials Science in China, 2007, 1, 109-113.	0.5	2
117	A Novel Zeroth-order Filter Based on CRLH Transmission Line. , 2006, , .		0
118	Multichanneled filter based on a branchy defect in microstrip photonic crystal. Applied Physics Letters, 2006, 88, 081106.	3.3	19
119	A Physical Model about the Space Charge Packet Phenomenon in Low-Density Polyethylene. , 2006, , .		1
120	Treeing-like Breakdown in Electronic Beam Irradiated LDPE with/without Nano-Powder Doping. , 2006, , .		0
121	Investigation on abnormal group velocities in 1D coaxial photonic crystals. Science Bulletin, 2006, 51, 1281-1286.	1.7	1
122	Transmission Properties of ENG-MNG Structure Based On CRLH Transmission Line. , 2006, , .		0
123	Effect of Inorganic Oxide Nano Powder on Space Charge Breakdown Behavior in Electron Beam Irradiated Nano/PMMA Composites. , 2006, , .		0
124	Relationship between Applied Mechanical Stress and Space Charge Breakdown. , 2006, , .		2
125	Space charge breakdown in PMMA without applied field. , 2005, , .		5
126	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

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127	Action of space charge on aging and breakdown of polymers. Science Bulletin, 2001, 46, 796-800.	1.7	12
128	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
129	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
130	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
131	Electret properties for porous polytetrafluoroethylene (PTFE) film. , 0, , .		5
132	A combined system of piezo-PWP/PEA methods for measuring space charge distribution in solid dielectrics. , 0, , .		6
133	The study of the open-circuit thermally stimulated discharge on the guest-host nonlinear optical polymer electret DR1/PMMA film. , 0, , .		0
134	Research of space charge in solid dielectrics in China. , 0, , .		2
135	New numerical deconvolution method for measuring space charge distribution in solid dielectrics. , 0, , .		0
136	Space charge packet behavior in low density polyethylene. , 0, , .		1
137	Experimental Investigation of Tunable Defect Modes in the Comb-Like Photonic Crystals. , 0, , .		0
138	Effect of Electron Beam Radiation on Permittivity in PMMA. , 0, , .		0