Yi Yin

List of Publications by Year in Descending Order

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

81 papers	654 citations	13 h-index	22 g-index
117 ext. papers	886 ext. citations	2.6 avg, IF	4.27 L-index

#	Paper	IF	Citations
81	Space Charge Behavior in Oil-Impregnated Paper Insulation under Sinusoidal Electric Field with Wide Frequency Range. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2022**, 1-1	2.3	0
80	Direct-Current Breakdown Test Method Based on Electrode-Embedded Fully Extruded Molding Crosslinked Polyethylene Sample. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2022**, 1-1	2.3	0
79	Insulation condition forewarning of form-wound winding for electric aircraft propulsion based on partial discharge and deep learning neural network. *High Voltage*, **2021**, 6, 302-313	4.1	0
78	Mobility-limited charge injection in cross-linked polyethylene under extra high electric field. *High Voltage*, **2021**, 6, 782-792	4.1	3
77	Moisture-dependent interface and bulk behaviour of space charge in DC-stressed oil-impregnated pressboard insulation. *IET Generation, Transmission and Distribution*, **2021**, 15, 558-567	2.5	4
76	Interfacial Charge Dynamics of XLPE/EPDM Double Layers by Simultaneous Measurement of Space Charge and Relaxation Current. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2021**, 28, 569-577	2.3	4
75	Interaction Effects of Three Major Crosslinking Byproducts on Space Charge Accumulation in Polyethylene. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2021**, 28, 710-718	2.3	2
74	An Investigation of 3D Filtering for Signal Processing of Space Charge in Dielectric under Periodic Electric Field. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2021**, 28, 780-787	2.3	
73	Partial Discharge Investigation of Form-Wound Electric Machine Winding for Electric Aircraft Propulsion. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 78-90	7.6	17
72	Text recommendation based on time series and multi-label information. *Computer Science and Information Systems*, **2021**, 18, 419-439	0.8	
71	. *IEEE Transactions on Power Electronics*, **2021**, 36, 11097-11108	7.2	8
70	Corrections to Partial Discharge Investigation of Form-Wound Electric Machine Winding for Electric Aircraft Propulsion *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2951-2951	7.6	0
69	Charge Transport in Full-Size HVDC Cable Joint with Modeling of XLPE/EPDM Interface. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2021**, 28, 2117-2125	2.3	1
68	Effect of micro and nano-size boron nitride and silicon carbide on thermal properties and partial discharge resistance of silicone elastomer composite. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2020**, 27, 377-385	2.3	11
67	Partial Discharge Investigation of Form-Wound Electric Machine Winding for Electric Aircraft Propulsion. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1638-1647	7.6	14
66	Study on Aging Characteristics of XLPE Cable Insulation Based on Quantum Chemical Calculation. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2020**, 27, 1942-1950	2.3	5
65	Relationship between space charge behavior and trap energy density distribution: A simultaneous measurement. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2019**, 26, 738-745	2.3	11

64	Characteristics of electrical tree defect during the growth period in high-voltage DC cable under stepped DC voltage. *IET Generation, Transmission and Distribution*, **2019**, 13, 3195-3201	2.5	9
63	Space Charge Behavior in Ethylene Propylene Rubber Under a 50-Hz AC Electric Field. *IEEE Access*, **2019**, 7, 171995-172003	3.5	3
62	A Modified Algorithm for the Simulation of Charge Behavior in Water Tree Aged Cross-Linked Polyethylene Cable. *IEEE Access*, **2018**, 6, 23929-23938	3.5	5
61	Research progress on space charge measurement and space charge characteristics of nanodielectrics. *IET Nanodielectrics*, **2018**, 1, 114-121	2.8	12
60	Experiment and Simulation of Space Charge Distribution in 35mm Cable Insulation **2018**,		1
59	Electrical Tree Growth in Polyethylene during the DC Voltage Rise and the Influence of the Tree Defect Size **2018**,		1
58	Effect of Moisture Content on Dynamic Characteristics of Space Charge in Oil-paper Insulation under AC Field **2018**,		2
57	Text prediction method based on multi-label attributes and improved maximum entropy model. *Journal of Intelligent and Fuzzy Systems*, **2018**, 34, 1097-1109	1.6	0
56	Space charge behavior in low density polyethylene at low temperatures. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2017**, 24, 3860-3868	2.3	12
55	A higher-order accurate algorithm based on two-dimensional unstructured mesh for simulation of charge transportation in solid dielectrics. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2017**, 24, 3165-3172	2.3	0
54	Research on simultaneous measurement of space charge and conduction current for thermally aged cross-linked polyethylene **2017**,		4
53	Small-angle X-ray scattering study on nanostructures of MgO/LDPE nanocomposites **2017**,		1
52	Space charge observation under periodic stresses Part 1: The simplest system and corresponding phase identification. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2017**, 24, 2579-2588	2.3	7
51	Effect of DC Prestressing on Periodic Grounded DC Tree in Cross-Linked Polyethylene at Different Temperatures. *IEEE Access*, **2017**, 5, 25876-25884	3.5	15
50	Study on conduction current characteristics of corona-resistant polyimide film before and after thermal aging **2017**,		2
49	A modified thermally stimulated current analysis method for direct determination of trap energy distribution. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2017**, 24, 3138-3143	2.3	8
48	A space-charge and relaxation-current based method for estimating electron and hole trap energy distribution. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2017**, 24, 3839-3848	2.3	7
47	Nanostructures and space charge characteristics of MgO/LDPE nanocomposites. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2017**, 24, 2390-2399	2.3	16

46	Investigation on space charge behavior in water tree aged crosslinked polyethylene (XLPE) cable by experiment and simulation **2017**,		2
45	. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2016**, 23, 1820-1828	2.3	6
44	Study on space charge behavior of oil-paper insulation under AC-DC combined stress **2016**,		3
43	Effect of temperature on space charge detrapping and periodic grounded DC tree in cross-linked polyethylene. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2016**, 23, 3704-3711	2.3	28
42	Investigation of surface trap distribution in LDPE/SiO2 nanocomposite based on simultaneous observation of space charge and relaxation current. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2016**, 23, 3486-3493	2.3	8
41	The effect of nano-MGO addition on grounded DC tree in cross-linked polyethylene **2015**,		5
40	Space charge measurement system using high-frequency pulse generator **2015**,		2
39	Simulation of space charge behavior in LDPE/silica nanocomposite with a modified model **2015**,		3
38	Electron behavior in hydrogen atom under electric fields **2015**,		1
37	Effect of nano-filler grain size on space charge behavior in LDPE /MgO nanocomposite **2014**,		1
36	Effect of surface fluorination on space charge behavior in multilayered polyimide films. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2014**, 21, 1817-1823	2.3	22
35	Simulation of space charge behavior in LDPE with a modified of bipolar charge transport model **2014**,		2
34	Effect of temperature on space charge trapping and conduction in cross-linked polyethylene. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2014**, 21, 1784-1791	2.3	63
33	Research on a practical de-noising method and the characterization of partial discharge UHF signals. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2014**, 21, 2206-2216	2.3	10
32	Experimental Investigating on on-line monitoring of insulation system of power transformers **2013**,		1
31	Research of Generator Stator Bar Insulation Detection based on Isothermal Relaxation Current Method **2013**,		1
30	Effect of surface fluorination on space charge behavior at LDPE/EPDM interface **2013**,		13
29	Processing of partial discharge ultra-high frequency signals from a true size transformer **2013**,		3

28	Effect of nanosilica grain size on the trap density distribution in LDPE/silica nanocomposite **2013**,		3
27	Temperature effect of space charge distribution in cross-linked polyethylene **2012**,		1
26	The influence of nano-filler on space charge distribution in LDPE/silica nanocomposites **2011**,		1
25	Temperature effect on space charge dynamics in LDPE/MgO nanocomposite under DC stress **2010**,		5
24	Enhanced electrical properties in percolative low-density polyethylene/carbon nanotubes nanocomposites. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2010**, 17, 645-652	2.3	10
23	Thermally Stimulated Currents of SiO2/Low-density Polyethylene Micro- and Nanocomposites. *IEEJ Transactions on Electrical and Electronic Engineering*, **2010**, 5, 385-390	1	4
22	Nanoparticle surface modification induced space charge suppression in linear low density polyethylene. *Applied Physics Letters*, **2009**, 95, 242905	3.4	91
21	Polyethylene/aluminum nanocomposites: Improvement of dielectric strength by nanoparticle surface modification. *Journal of Applied Polymer Science*, **2009**, 113, 3577-3584	2.9	35
20	Computer simulation and analysis of electric and temperature fields of HVDC cables **2009**,		4
19	Influence of aluminum nanoparticle surface treatment on the electrical properties of polyethylene composites. *Journal of Applied Physics*, **2009**, 105, 014105	2.5	53
18	The condition assessment system of XLPE cables using the isothermal relaxation current technique **2009**,		3
17	Charge carrier transportation in the composite of Nano-MgO and cross-linking polyethylene **2009**,		4
16	Calculation of electric field and temperature field distribution in MVDC polymeric power cable **2009**,		2
15	High field conduction behavior of nanocomposite of low-density polyethylene and Ag nanoparticles **2008**,		1
14	Electrical conductivity of polyethylene aluminum nanocomposites with different particle surface chemistry characteristics **2008**,		3
13	The thermally stimulated currents of SiO2/ low-density polyethylene micro- and nanocomposites **2008**,		1
12	Dielectric characteristics of SiO2/LDPE micro- and nanocomposites **2008**,		3
11	Correlation between rheological, electrical, and microstructure characteristics in polyethylene/aluminum nanocomposites. *Journal of Polymer Science, Part B: Polymer Physics*, **2008**, 46, 2143-2154	2.6	17

10	Space Charge in Low-density Polyethylene /micro-SiO2 composite and Low-density Polyethylene/ nano-SiOx composite with different metal electrode pairs **2007**,		3
9	The effect of filler content on slow polarization behavior in composite of nano-SiOx or micro-SiO2 and low-density polyethylene **2007**,		3
8	Effect of pH value on the structures and optical properties of chemical bath deposition cadmium sulfide thin films **2007**,		1
7	The Effect of Electrically Prestressing on DC Breakdown Strength in the Nanocomposite of Low-density Polyethylene / nano-SiOx **2007**,		8
6	Space Charge Distribution Behavior of Nano-SiOx and Low-density Polyethylene Composite **2006**,		1
5	Low Frequency Polarization Behavior of Nano-Ag/Low-density Polyethylene Composite **2006**,		1
4	The Effect of Electrical Stressing History on the Slow Polarization of Nano-SiOx and Low-density Polyethylene Composite **2006**,		1
3	High Field Electrical Conduction in the Nanocomposite of Low-density Polyethylene and Nano-SiOX. *IEEJ Transactions on Fundamentals and Materials*, **2006**, 126, 1064-1071	0.2	17
2	Dielectric Properties and Coulomb Blockade Effect in Nano-Ag/Silicone Resin Modified Polyester Composite. *IEEJ Transactions on Fundamentals and Materials*, **2006**, 126, 1148-1152	0.2	1
1	Effect of space charge in nanocomposite of LDPE/TiO/sub 2/		12