Lee Li

List of Publications by Year
in descending order

69 papers	545 citations	623734 14 h-index	752698 20 g-index
69 all docs	69 docs citations	69 times ranked	490 citing authors

#	Article	IF	Citations
1	Random Forest Based Optimal Feature Selection for Partial Discharge Pattern Recognition in HV Cables. IEEE Transactions on Power Delivery, 2019, 34, 1715-1724.	4.3	47
2	An integrated method of set pair analysis and association rule for fault diagnosis of power transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2368-2378.	2.9	37
3	Condition assessment of power transformers using a synthetic analysis method based on association rule and variable weight coefficients. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 2052-2060.	2.9	31
4	Glass Fiber-Reinforced Phenol Formaldehyde Resin-Based Electrical Insulating Composites Fabricated by Selective Laser Sintering. Polymers, 2019, 11, 135.	4.5	27
5	Study on erosion mechanism of graphite electrode in two-electrode spark gap switch. Review of Scientific Instruments, 2012, 83, 013504.	1.3	26
6	Analysis on Useful Lifetime of High-Power Closing Switch With Graphite Electrodes. IEEE Transactions on Plasma Science, 2011, 39, 737-743.	1.3	24
7	Analysis and experimental study on formation conditions of large-scale barrier-free diffuse atmospheric pressure air plasmas in repetitive pulse mode. Journal of Applied Physics, 2014, 115, 023301.	2.5	24
8	Study on Surface Properties of Polyamide 66 Using Atmospheric Glow-Like Discharge Plasma Treatment. Coatings, 2017, 7, 123.	2.6	24
9	Study on the difference of chemical composition of insulator contamination on UHVâ€AC and â€ĐC transmission lines. IET Science, Measurement and Technology, 2018, 12, 17-24.	1.6	18
10	Quantification and comparison of insulator pollution characteristics based on normality of relative contamination values. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 965-973.	2.9	17
11	Design, Construction, and Testing of Switches and Trigger Generator for 1.2-MJ Capacitive Pulsed Power Supply Module. IEEE Transactions on Plasma Science, 2011, 39, 294-299.	1.3	16
12	Modeling of switching delay in gas-insulated trigatron spark gaps. Journal of Applied Physics, 2012, 111, .	2.5	16
13	The development of shock wave overpressure driven by channel expansion of high current impulse discharge arc. Physics of Plasmas, 2018, 25, .	1.9	16
14	Diffuse plasma treatment of polyamide 66 fabric in atmospheric pressure air. Applied Surface Science, 2016, 362, 348-354.	6.1	14
15	Analysis of electrical contact temperature rise in spark gap switches with graphite electrodes. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1307-1313.	2.9	13
16	Dynamic behaviors and self-cleaning property of droplet on superhydrophobic coating in uniform DC electric field. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 127056.	4.7	13
17	Fast switching thyristor applied in nanosecond-pulse high-voltage generator with closed transformer core. Review of Scientific Instruments, 2013, 84, 024703.	1.3	12
18	The effect of drop volume on the apparent contact angle of hierarchical structured superhydrophobic surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 611, 125849.	4.7	11

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19	Generating diffuse discharge via repetitive nanosecond pulses and line-line electrodes in atmospheric air. Review of Scientific Instruments, 2013, 84, 105105.	1.3	9
20	Analysis on Triggering and Discharge Characteristics of Three-Electrode Trigatron Gap. IEEE Transactions on Plasma Science, 2012, 40, 1634-1642.	1.3	8
21	Analysis of breakdown mechanism in trigatron switches. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1069-1075.	2.9	8
22	Study on Graphite-Electrode Gas Switch Applied for Pulsed Power Supply With a 700-kA Peak Current. IEEE Transactions on Plasma Science, 2015, 43, 3419-3424.	1.3	8
23	Study on double resonant performance of air-core spiral tesla transformer applied in repetitive pulsed operation. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1916-1922.	2.9	8
24	Study on pre-fire phenomenon for multiplex high-energy spark gap switches with graphite electrodes. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 886-892.	2.9	7
25	Development of a Long-Lifetime Spark Gap Switch and Its Trigger Generator for 2.0-MJ Capacitive Pulsed Power Supply Module. IEEE Transactions on Plasma Science, 2013, 41, 1260-1266.	1.3	7
26	Study on electrical characteristics of barrier-free atmospheric air diffuse discharge generated by nanosecond pulses and long wire electrodes. Physics of Plasmas, 2014, 21, .	1.9	7
27	Size Distribution of Contamination Particulate on Porcelain Insulators. Coatings, 2018, 8, 339.	2.6	7
28	Statistical characteristics and mechanism analysis of adhered particle on surface under strong electric field. Particuology, 2019, 43, 110-122.	3.6	7
29	Effect of 100-nm Al₂O₃ Particle Inclusions on 100-kA Pulsed Arc Erosion of Wâ€“Cu Electrodes. IEEE Transactions on Plasma Science, 2020, 48, 228-236.	1.3	7
30	Droplet rolling angle model of micro-nanostructure superhydrophobic coating surface. European Physical Journal E, 2021, 44, 25.	1.6	7
31	A comparative study of the self-propelled jumping capabilities of coalesced droplets on RTV surfaces and superhydrophobic surfaces. Chinese Physics B, 2021, 30, 046501.	1.4	6
32	Predicting the DC pollution flashover voltage on the insulation surfaces with superhydrophobicity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 646, 128987.	4.7	6
33	Analysis on Electrode Replacement of Spark-Gap Switches With Graphite Electrodes. IEEE Transactions on Plasma Science, 2011, 39, 1874-1880.	1.3	5
34	Study of characteristics and performance optimization of a three-electrode spark gap. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1032-1039.	2.9	5
35	A Multi-Objective Robust Optimization Design for Grid Emergency Goods Distribution Under Mixed Uncertainty. IEEE Access, 2018, 6, 61117-61129.	4.2	5
36	Dust contamination on surface of transmission line insulators in air-polluted regions in China: statistical characteristics, adhesion mechanism, and environmental impact factors. Environmental Science and Pollution Research, 2020, 27, 23643-23654.	5.3	5

#	Article	IF	Citations
37	Generation of large-scale, barrier-free diffuse plasmas in air at atmospheric pressure using array wire electrodes and nanosecond high-voltage pulses. Physics of Plasmas, 2014, 21, 103510.	1.9	4
38	Performance Evaluation of Fe-Based Nanocrystalline Cores With High and Low Residual Flux. IEEE Transactions on Plasma Science, 2014, 42, 2079-2085.	1.3	4
39	Effect of dilution gas composition on the evolution of graphite electrode characteristics in the spark gap switch. Plasma Science and Technology, 2021, 23, 064009.	1.5	4
40	A pulsed-power generator merging inductive voltage and current adders and its switch trigger application example. Review of Scientific Instruments, 2013, 84, 075108.	1.3	3
41	Characteristics of N<inf>2</inf>/O<inf>2</inf> reaction in spark gap switch: The effect of high-current pulsed arc. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 492-500.	2.9	3
42	Design, construction, and testing of solution resistive divider applied in hundreds of kilovolts nanosecond pulse measurement. Review of Scientific Instruments, 2014, 85, 105106.	1.3	2
43	Large-Scale Nonthermal Plasma Generated by Repetitive Nanosecond Pulses and Barrier-Free Wire electrodes in Atmospheric Pressure Air. IEEE Transactions on Plasma Science, 2014, 42, 2356-2357.	1.3	2
44	Optical and electrical investigation of a cylindrical diffuse-discharge chamber. Physics of Plasmas, 2015, 22, 033503.	1.9	2
45	Nonlinear Frequency Characteristic of Multiple Series Gaps With Voltage-Dividing Network and Its Application in HVDC Circuit Breaker. IEEE Transactions on Plasma Science, 2016, , 1-8.	1.3	2
46	Geometric factors affecting capillary discharge jet length in atmospheric pressure air. Review of Scientific Instruments, 2017, 88, 065109.	1.3	2
47	Carbon-oxygen reaction efficiency in air gap switch with graphite electrodes under high current pulse discharge. Physics of Plasmas, 2017, 24, 123512.	1.9	2
48	Design of a high current protection inductor for the high energy density capacitor bank of large laser fusion facility. Fusion Engineering and Design, 2019, 143, 147-153.	1.9	2
49	Research on ground potential of Marx generator in large current switch system. , 2010, , .		1
50	Study on graphite-electrode gas switch applied for pulsed power supply with 700 kA peak current. , 2014, , .		1
51	Effects of Atmosphere on the Evolution Process of Graphite Electrodes under the Pulsed Discharge. , 2019, , .		1
52	Modeling and Fault Analysis for Power Conditioning System of Giant Solid-State Laser Facility. IEEE Transactions on Plasma Science, 2022, 50, 366-373.	1.3	1
53	Hexamethyldisilazane-assisted Mn²⁺ doping of perovskite nanocrystals under ambient conditions. CrystEngComm, 2022, 24, 1803-1811.	2.6	1
54	The research on the trigger characteristic of a three-electrode spark gap. , 2011, , .		0

#	Article	IF	Citations
55	Discussion of breakdown mechanism in trigatron spark gap. , 2012, , .		0
56	Discussion on erosion in trigatron spark gap affected by current action integral. , 2013, , .		0
57	Trigger characteristics of two-electrode graphite spark gap switches in pulsed power conditioning system. , 2013, , .		0
58	Designing and testing of compact repetitive tesla-based pulsed power source. , 2013, , .		0
59	Impact of Wire Electrode Length on Nanosecond-Pulse Diffuse Discharge in Atmospheric Pressure Air. IEEE Transactions on Plasma Science, 2014, 42, 2492-2493.	1.3	0
60	Study on the Performance of High-Voltage Trigger Generators in Pulsed Power Conditioning System. IEEE Transactions on Plasma Science, 2014, 42, 3614-3622.	1.3	0
61	A Nonthermal Plasma Cage Using Repetitive Nanosecond Pulse Source in the Open Air. IEEE Transactions on Plasma Science, 2014, 42, 2386-2387.	1.3	0
62	Comprehensive Condition Assessment Model of Metal Oxide Surge Arresters Based on Fusion Cloud Theory and Improved Evidence Theory. , 2018, , .		0
63	Study of Nitrogen-Oxygen Reaction Efficiency for High Current Graphite-electrode Gas Switch. , 2018, , .		0
64	Study on the Reaction of Oxygen and Nitrogen under the Effect of Intense Pulsed Arc in Gap Switch. , 2018, , .		0
65	Design and characteristics of a modular integrated power supply for the system of flashlamp-pumped in inertial confinement fusion. Fusion Engineering and Design, 2021, 163, 112153.	1.9	0
66	Study of a Magnetic Switch for the SG-III Energy Module. Journal of the Korean Physical Society, 2011, 59, 3608-3613.	0.7	0
67	Design and Test of the Main Discharge Circuit for a Modular Integrated Laser ICF Power Supply. , 2020, , .		0
68	Temperature Distribution on the Anode of Graphite Electrodes in High-Current Pulsed ARC with Different Atmosphere. , 2020, , .		0
69	Research on the Ablation of Multiple Alloy Electrodes under the Effect Hundreds Ka Pulsed ARC. , 2020, , .		0