

# Lee Li

## List of Publications by Year in descending order

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69  
papers

545  
citations

623734

14  
h-index

752698

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69  
all docs

69  
docs citations

69  
times ranked

490  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Hexamethyldisilazane-assisted Mn <sup>2+</sup> doping of perovskite nanocrystals under ambient conditions. CrystEngComm, 2022, 24, 1803-1811.	2.6	1
3	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
4	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
5	Droplet rolling angle model of micro-nanostructure superhydrophobic coating surface. European Physical Journal E, 2021, 44, 25.	1.6	7
6	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
7	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
8	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
9	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
10	Effect of 100-nm Al <sub>2</sub> O <sub>3</sub> Particle Inclusions on 100-kA Pulsed Arc Erosion of W-Cu Electrodes. IEEE Transactions on Plasma Science, 2020, 48, 228-236.	1.3	7
11	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
12	Design and Test of the Main Discharge Circuit for a Modular Integrated Laser ICF Power Supply. , 2020, , .		0
13	Temperature Distribution on the Anode of Graphite Electrodes in High-Current Pulsed ARC with Different Atmosphere. , 2020, , .		0
14	Research on the Ablation of Multiple Alloy Electrodes under the Effect Hundreds Ka Pulsed ARC. , 2020, , .		0
15	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
16	Glass Fiber-Reinforced Phenol Formaldehyde Resin-Based Electrical Insulating Composites Fabricated by Selective Laser Sintering. Polymers, 2019, 11, 135.	4.5	27
17	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
18	Characteristics of N <sub>2</sub> /O <sub>2</sub> 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

#	ARTICLE	IF	CITATIONS
19	Effects of Atmosphere on the Evolution Process of Graphite Electrodes under the Pulsed Discharge. , 2019, , .		1
20	Statistical characteristics and mechanism analysis of adhered particle on surface under strong electric field. Particuology, 2019, 43, 110-122.	3.6	7
21	Study on the difference of chemical composition of insulator contamination on UHVâ€AC and â€DC transmission lines. IET Science, Measurement and Technology, 2018, 12, 17-24.	1.6	18
22	The development of shock wave overpressure driven by channel expansion of high current impulse discharge arc. Physics of Plasmas, 2018, 25, .	1.9	16
23	Comprehensive Condition Assessment Model of Metal Oxide Surge Arresters Based on Fusion Cloud Theory and Improved Evidence Theory. , 2018, , .		0
24	Study of Nitrogen-Oxygen Reaction Efficiency for High Current Graphite-electrode Gas Switch. , 2018, , .		0
25	Study on the Reaction of Oxygen and Nitrogen under the Effect of Intense Pulsed Arc in Gap Switch. , 2018, , .		0
26	Size Distribution of Contamination Particulate on Porcelain Insulators. Coatings, 2018, 8, 339.	2.6	7
27	A Multi-Objective Robust Optimization Design for Grid Emergency Goods Distribution Under Mixed Uncertainty. IEEE Access, 2018, 6, 61117-61129.	4.2	5
28	Geometric factors affecting capillary discharge jet length in atmospheric pressure air. Review of Scientific Instruments, 2017, 88, 065109.	1.3	2
29	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
30	Study on Surface Properties of Polyamide 66 Using Atmospheric Glow-Like Discharge Plasma Treatment. Coatings, 2017, 7, 123.	2.6	24
31	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
32	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
33	Diffuse plasma treatment of polyamide 66 fabric in atmospheric pressure air. Applied Surface Science, 2016, 362, 348-354.	6.1	14
34	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
35	Optical and electrical investigation of a cylindrical diffuse-discharge chamber. Physics of Plasmas, 2015, 22, 033503.	1.9	2
36	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

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37	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
38	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
39	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
40	Study on graphite-electrode gas switch applied for pulsed power supply with 700 kA peak current. , 2014, , .		1
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	Discussion on erosion in trigatron spark gap affected by current action integral. , 2013, , .		0
50	Trigger characteristics of two-electrode graphite spark gap switches in pulsed power conditioning system. , 2013, , .		0
51	Analysis of breakdown mechanism in trigatron switches. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1069-1075.	2.9	8
52	Fast switching thyristor applied in nanosecond-pulse high-voltage generator with closed transformer core. Review of Scientific Instruments, 2013, 84, 024703.	1.3	12
53	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
54	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

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55	Designing and testing of compact repetitive tesla-based pulsed power source. , 2013, , .		0
56	Generating diffuse discharge via repetitive nanosecond pulses and line-line electrodes in atmospheric air. Review of Scientific Instruments, 2013, 84, 105105.	1.3	9
57	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
58	Discussion of breakdown mechanism in trigatron spark gap. , 2012, , .		0
59	Modeling of switching delay in gas-insulated trigatron spark gaps. Journal of Applied Physics, 2012, 111, .	2.5	16
60	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
61	Study on erosion mechanism of graphite electrode in two-electrode spark gap switch. Review of Scientific Instruments, 2012, 83, 013504.	1.3	26
62	Analysis on Triggering and Discharge Characteristics of Three-Electrode Trigatron Gap. IEEE Transactions on Plasma Science, 2012, 40, 1634-1642.	1.3	8
63	The research on the trigger characteristic of a three-electrode spark gap. , 2011, , .		0
64	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
65	Analysis on Useful Lifetime of High-Power Closing Switch With Graphite Electrodes. IEEE Transactions on Plasma Science, 2011, 39, 737-743.	1.3	24
66	Analysis on Electrode Replacement of Spark-Gap Switches With Graphite Electrodes. IEEE Transactions on Plasma Science, 2011, 39, 1874-1880.	1.3	5
67	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
68	Study of a Magnetic Switch for the SG-III Energy Module. Journal of the Korean Physical Society, 2011, 59, 3608-3613.	0.7	0
69	Research on ground potential of Marx generator in large current switch system. , 2010, , .		1