

Zhaoquan Chen

List of Publications by Year in descending order

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papers

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33
all docs

33
docs citations

33
times ranked

229
citing authors

#	ARTICLE	IF	CITATIONS
1	Filamentary streamer discharges in argon at atmospheric pressure excited by surface plasmon polaritons. Review of Scientific Instruments, 2012, 83, 084701.	1.3	41
2	PIC/MCC Simulation of the Ionization Process for Filamentary Streamer Plasma Jet at Atmosphere Pressure in Argon. IEEE Transactions on Plasma Science, 2012, 40, 2861-2865.	1.3	33
3	Self-consistent fluid modeling and simulation on a pulsed microwave atmospheric-pressure argon plasma jet. Journal of Applied Physics, 2014, 116, .	2.5	32
4	Bullet-shaped ionization front of plasma jet plumes driven by microwave pulses at atmospheric gas pressure. Journal of Applied Physics, 2017, 122, .	2.5	31
5	Study on hairpin-shaped argon plasma jets resonantly excited by microwave pulses at atmospheric pressure. Journal of Applied Physics, 2015, 118, .	2.5	23
6	Donut shape plasma jet plumes generated by microwave pulses even without air mole fractions. Journal of Applied Physics, 2017, 121, .	2.5	23
7	Polarity Transition and Ionization Enhancement of Atmospheric Argon Plasma Jet Plumes Generated by Repetitive Microwave Pulses. IEEE Transactions on Plasma Science, 2019, 47, 4787-4794.	1.3	21
8	Mechanism on improved surface flashover performances in vacuum of epoxy resin using fluorocarbon plasma treatment. High Voltage, 2022, 7, 420-428.	4.7	20
9	Longer Microwave Plasma Jet With Different Discharge Performances Originated by Plasmaâ€™Surface Interactions. IEEE Transactions on Plasma Science, 2014, 42, 2768-2769.	1.3	19
10	Particle-in-cell/Monte Carlo collision simulation of the ionization process of surface-wave plasma discharges resonantly excited by surface plasmon polaritons. Physics of Plasmas, 2013, 20, .	1.9	18
11	Effect of wave-mode conversion device on production of large-area rectangular overdense surface-wave plasmas at the gas pressure about 100 Pa. Physics of Plasmas, 2011, 18, 013505.	1.9	17
12	Confluence or independence of microwave plasma bullets in atmospheric argon plasma jet plumes. Journal of Applied Physics, 2018, 123, .	2.5	17
13	Stepwise propagation of a guided streamer along a DBD helium plasma jet fed by biased oscillating voltage. Applied Physics Letters, 2019, 114, .	3.3	17
14	Study on Argon Plasma Jets at Atmospheric Pressure in Ambient Air Excited by Surface Waves. IEEE Transactions on Plasma Science, 2014, 42, 911-916.	1.3	15
15	Short-Circuit Failure Model of SiC MOSFET Including the Interface Trapped Charges. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 90-98.	5.4	14
16	Measurement of transient electron density of a pulsed microwave argon plasma jet via microwave Rayleigh scattering. Journal of Applied Physics, 2020, 128, .	2.5	13
17	Production of 30-mm Wide DC-Driven Brush-Shaped Cold Plasmas and Simulation on Its Discharge Process. IEEE Transactions on Plasma Science, 2013, 41, 1658-1663.	1.3	12
18	More Efficient Microwave Argon Plasma Jet With a Symmetric Hairpin Copper Wire at Atmospheric Pressure. IEEE Transactions on Plasma Science, 2015, 43, 906-907.	1.3	12

#	ARTICLE	IF	CITATIONS
19	Development of a portable cold air plasma jet device and observation of its photo ionization process. Plasma Science and Technology, 2020, 22, 085403.	1.5	12
20	Atmospheric Plasma Jet Relay Driven by a 40-kHz Power Supply and Its Representative Characteristics. IEEE Transactions on Plasma Science, 2015, 43, 1825-1831.	1.3	11
21	Role of charge accumulation in guided streamer evolution in helium DBD plasma jets. Scientific Reports, 2021, 11, 17286.	3.3	9
22	A streamer behavior evolution during an applied voltage cycle in helium and argon atmospheric pressure plasma jets fed by DBD. Japanese Journal of Applied Physics, 2020, 59, SHHC03.	1.5	8
23	Investigation of the Arrayed Dielectric Barrier Discharge Reactor for PM2.5 Removal in Air. IEEE Transactions on Plasma Science, 2016, 44, 1341-1348.	1.3	7
24	Electron cyclotron resonance discharge enhancement in a cusped field thruster. Plasma Sources Science and Technology, 2021, 30, 09LT01.	3.1	7
25	DC glow microdischarge with a self-determined length in helium and argon at atmospheric pressure. Journal of Applied Physics, 2018, 123, 083304.	2.5	4
26	Transition from one-pass mode to stepwise propagation of a guided streamer along a helium plasma jet. Applied Physics Letters, 2021, 119, .	3.3	4
27	Study on discharge mode and transition mechanism of atmospheric pressure Ar/Zn pulsed microwave plasma jet. AIP Advances, 2021, 11, .	1.3	4
28	Ionization process and distinctive characteristic of atmospheric pressure cold plasma jet driven resonantly by microwave pulses. Plasma Science and Technology, 2022, 24, 105401.	1.5	4
29	Slot-array antenna devising for surface microwave discharge of surface plasmon polaritons. , 2011, , .		3
30	Ionization behavior of hairpin argon plasma jets resonantly generated by microwave pulses at atmospheric pressure. Scientia Sinica: Physica, Mechanica Et Astronomica, 2022, 52, 295211.	0.4	2
31	Determination of the local electron density based on millimeter wave interferometry I: Theoretical analysis. , 2010, , .		0
32	Determination of the local electron density based on millimeter wave interferometry II: Experimental operations and comparisons. , 2010, , .		0
33	Theoretical analysis of surface microwave discharge resonantly excited by surface plasmon polaritons. , 2011, , .		0