Pengying Jia

List of Publications by Year
in descending order

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47	468	759233 12	888059 17
papers	citations	h-index	g-index

47	47	47	266
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Regularly-swelling plumes generated in atmospheric pressure argon plasma jet excited by a biased sinusoidal voltage. Plasma Sources Science and Technology, 2019, 28, 055006.	3.1	26
2	Large-scale surface modification to improve hydrophilicity through using a plasma brush operated at one atmospheric pressure. Physics of Plasmas, 2019, 26, .	1.9	23
3	A plasma needle for generating homogeneous discharge in atmospheric pressure air. Physics of Plasmas, 2010, 17, .	1.9	20
4	Generation of a large-scale uniform plasma plume through the interactions between a pair of atmospheric pressure argon plasma jets. Applied Physics Letters, 2020, 117, .	3.3	20
5	One atmospheric pressure plasma jet with two modes at a frequency of several tens kHz. Physics of Plasmas, 2011, 18, 043505.	1.9	18
6	Performance of a large-scale barrier discharge plume improved by an upstream auxiliary barrier discharge. Applied Physics Letters, 2016, 109, .	3.3	18
7	Plume transition from solid to hollow with increasing the bias value of a sinusoidal voltage applied to an argon plasma jet. Plasma Processes and Polymers, 2018, 15, 1700224.	3.0	18
8	Morphology transition from diffuse to diffuse-and-filamentary for an argon plume with varying sinusoidal frequency or voltage amplitude. Plasma Sources Science and Technology, 2020, 29, 065015.	3.1	17
9	Characteristics of a Direct Current-driven plasma jet operated in open air. Applied Physics Letters, 2013, 103, .	3.3	15
10	Influence of air addition on surface modification of polyethylene terephthalate treated by an atmospheric pressure argon plasma brush. Plasma Science and Technology, 2021, 23, 085504.	1.5	15
11	Diffuse and spotted anode layers in an atmospheric pressure glow discharge with a water electrode and miniature argon flow. Plasma Processes and Polymers, 2020, 17, 1900223.	3.0	14
12	Improved performance of a barrier-discharge plasma jet biased by a direct-current voltage. Scientific Reports, 2016, 6, 35653.	3.3	13
13	Characteristics of a micro-gap argon barrier discharge excited by a saw-tooth voltage at atmospheric pressure. Physics of Plasmas, 2017, 24, .	1.9	13
14	Spatialâ€temporal evolutions of surface discharge patterns generated on dielectric target interacted with a plasma jet. Plasma Processes and Polymers, 2019, 16, 1900073.	3.0	13
15	Self-pulsing discharge of a plasma brush operated in atmospheric-pressure argon. Europhysics Letters, 2013, 102, 55003.	2.0	12
16	Comparison of deionized and tap water activated with an atmospheric pressure glow discharge. Physics of Plasmas, 2019, 26, .	1.9	12
17	Atmospheric pressure self-organized filaments in dielectric barrier discharge excited by a modulated sinusoidal voltage. Physics of Plasmas, 2020, 27, .	1.9	12
18	Influence of driving frequency on discharge modes in the dielectric barrier discharge excited by a triangle voltage. Physics of Plasmas, 2018, 25, 013512.	1.9	11

#	Article	IF	Citations
19	Development of a dielectric barrier discharge enhanced plasma jet in atmospheric pressure air. Physics of Plasmas, 2012, 19, 093504.	1.9	10
20	A large gap uniform discharge excited by a direct-current voltage at atmospheric pressure. Applied Physics Letters, 2013, 102, 223501.	3.3	10
21	Two modes of a plasma jet excited by a direct current voltage. Plasma Sources Science and Technology, 2016, 25, 025022.	3.1	10
22	Dynamics of an atmospheric pressure planar plume with two naked electrodes excited by an alternating current voltage. Journal of Applied Physics, 2018, 123, .	2.5	9
23	Mechanism of snake-like propagation for positive streamers in a meandering plasma plume excited by a positively biased sinusoidal voltage. Physics of Plasmas, 2021, 28, .	1.9	9
24	A diffuse argon plume generated downstream of an atmospheric pressure plasma jet equipped with a positively biased electrode. Journal Physics D: Applied Physics, 2022, 55, 015203.	2.8	9
25	Numerically simulated influence of positive ions on the propagation of a positive streamer initiated in an argon plasma jet. Physics of Fluids, 2022, 34, .	4.0	9
26	Characterization of a Laminar Plasma Plume Based on Dielectric-Barrier Discharge at Atmospheric Pressure. IEEE Transactions on Plasma Science, 2018, 46, 583-586.	1.3	8
27	Influence of voltage duty ratio on current asymmetry and mode of a helium dielectric-barrier discharge excited by a modulated voltage. Physics of Plasmas, 2018, 25, 073510.	1.9	8
28	Influence of external parameters on nonlinear behaviors in a helium dielectric-barrier discharge excited by a modulated voltage. Physics of Plasmas, 2019, 26, .	1.9	8
29	A compound plume with solid and hollow parts formed downstream of an argon plasma jet at atmospheric pressure. Physics of Plasmas, 2021, 28, .	1.9	8
30	Influence of asymmetric degree on the characteristics of a homogeneous barrier discharge excited by an asymmetric sine. Physics of Plasmas, 2020, 27, .	1.9	8
31	Generation of a diffuse brush-shaped plasma plume using a dielectric barrier discharge at atmospheric pressure. Physics of Plasmas, 2016, 23, .	1.9	7
32	Generation of a planar direct-current glow discharge in atmospheric pressure air using rod array electrode. Scientific Reports, 2017, 7, 2672.	3.3	7
33	Spatialâ€“Temporal Evolution and Plasma Parametersâ€™ Diagnosis of a Transverse Glow Discharge in Atmospheric Pressure Air. IEEE Transactions on Plasma Science, 2019, 47, 1330-1335.	1.3	7
34	Surface discharge induced interactions of filaments in argon dielectric barrier discharge at atmospheric pressure. Physics of Plasmas, 2017, 24, 103520.	1.9	6
35	Spatial-temporal evolution of self-organized loop-patterns on a water surface and a diffuse discharge in the gap. Physics of Plasmas, 2017, 24, .	1.9	6
36	Mode transitions of a helium dielectric barrier discharge from Townsend, normal glow, to abnormal glow with varying voltage rising time. AIP Advances, 2019, 9, .	1.3	6

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37	Temporal Evolutions of Self-Organized Patterns Formed on the Water-Anode Surface of an Atmospheric Pressure Glow Discharge. IEEE Transactions on Plasma Science, 2022, 50, 1717-1722.	1.3	6
38	A linear-field plasma jet for generating a brush-shaped laminar plume at atmospheric pressure. Physics of Plasmas, 2016, 23, .	1.9	5
39	A diffuse argon plume generated by a longitudinal slit jet equipped with a quadri-electrode barrier discharge. Physics of Plasmas, 2018, 25, .	1.9	5
40	A Regularly Swelling Hollow Plume Generated in an Atmospheric Pressure Argon Plasma Jet Excited by a Positively Biased Sinusoidal Voltage. IEEE Transactions on Plasma Science, 2019, 47, 4868-4872.	1.3	5
41	Observation of self-organized honeycomb patterns by fast photography in a liquid-anode discharge. Physics of Plasmas, 2019, 26, .	1.9	4
42	Influence of operating parameters on highâ€pressure microhollow cathode discharge with a cylindrical hole. Plasma Processes and Polymers, 2020, 17, 1900228.	3.0	3
43	Complicated streamer dynamics in petalâ€like patterns formed on the substrate downstream of an argon plasma jet. Plasma Processes and Polymers, 2022, 19, .	3.0	3
44	Spatial distribution of ion polytropic index joint-modulated by temperature anisotropy and MHD disturbances in the southern high latitude magnetosheath. Science China Technological Sciences, 2018, 61, 381-388.	4.0	2
45	Signal process of light emission patterns in argon/air dielectric barrier discharge. , 2010, , .		0
46	Diagnosis on the Molecular Vibrational Temperature of a Micro-Plasma Jet Operated at Atmospheric Pressure. , 2010, , .		0
47	Electromagnetic Signal Processing to Diagnose the Electron Density in Gas Discharge. , 2010, , .		0