

Xuechen Li

List of Publications by Year in descending order

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61
papers

649
citations

687363

13
h-index

794594

19
g-index

61
all docs

61
docs citations

61
times ranked

332
citing authors

#	ARTICLE	IF	CITATIONS
1	A diffuse argon plume generated downstream of an atmospheric pressure plasma jet equipped with a positively biased electrode. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 015203.	2.8	9
2	Various concentric-ring patterns formed in a water-anode glow discharge operated at atmospheric pressure. <i>Plasma Science and Technology</i> , 2022, 24, 055405.	1.5	4
3	Numerically simulated influence of positive ions on the propagation of a positive streamer initiated in an argon plasma jet. <i>Physics of Fluids</i> , 2022, 34, .	4.0	9
4	Influence of oxygen addition on the discharge characteristics of an argon plasma jet at atmospheric pressure. <i>Chinese Physics B</i> , 2022, 31, 065205.	1.4	8
5	Temporal Evolutions of Self-Organized Patterns Formed on the Water-Anode Surface of an Atmospheric Pressure Glow Discharge. <i>IEEE Transactions on Plasma Science</i> , 2022, 50, 1717-1722.	1.3	6
6	Complicated streamer dynamics in petal-like patterns formed on the substrate downstream of an argon plasma jet. <i>Plasma Processes and Polymers</i> , 2022, 19, .	3.0	3
7	Effect of Dielectric Surface Morphology on Dielectric Barrier Discharge Mode in Air at Atmospheric Pressure. <i>IEEE Transactions on Plasma Science</i> , 2021, 49, 214-218.	1.3	14
8	Influence of air addition on surface modification of polyethylene terephthalate treated by an atmospheric pressure argon plasma brush. <i>Plasma Science and Technology</i> , 2021, 23, 085504.	1.5	15
9	Mechanism of snake-like propagation for positive streamers in a meandering plasma plume excited by a positively biased sinusoidal voltage. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	9
10	Morphology evolution of an atmospheric pressure glow discharge initiated in the air gap between a liquid cathode and a needle anode. <i>Plasma Sources Science and Technology</i> , 2021, 30, 095021.	3.1	11
11	A compound plume with solid and hollow parts formed downstream of an argon plasma jet at atmospheric pressure. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	8
12	Morphology transition from diffuse to diffuse-and-filamentary for an argon plume with varying sinusoidal frequency or voltage amplitude. <i>Plasma Sources Science and Technology</i> , 2020, 29, 065015.	3.1	17
13	Generation of a large-scale uniform plasma plume through the interactions between a pair of atmospheric pressure argon plasma jets. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	20
14	Atmospheric pressure self-organized filaments in dielectric barrier discharge excited by a modulated sinusoidal voltage. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	12
15	Diffuse and spotted anode layers in an atmospheric pressure glow discharge with a water electrode and miniature argon flow. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900223.	3.0	14
16	Comparison of discharge characteristics and methylene blue degradation through a direct-current excited plasma jet with air and oxygen used as working gases. <i>Plasma Science and Technology</i> , 2020, 22, 055505.	1.5	14
17	Influence of operating parameters on high-pressure microhollow cathode discharge with a cylindrical hole. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900228.	3.0	3
18	Influence of asymmetric degree on the characteristics of a homogeneous barrier discharge excited by an asymmetric sine. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	8

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19	Regularly-swelling plumes generated in atmospheric pressure argon plasma jet excited by a biased sinusoidal voltage. <i>Plasma Sources Science and Technology</i> , 2019, 28, 055006.	3.1	26
20	Observation of self-organized honeycomb patterns by fast photography in a liquid-anode discharge. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	4
21	Mode transitions of a helium dielectric barrier discharge from Townsend, normal glow, to abnormal glow with varying voltage rising time. <i>AIP Advances</i> , 2019, 9, .	1.3	6
22	A Regularly Swelling Hollow Plume Generated in an Atmospheric Pressure Argon Plasma Jet Excited by a Positively Biased Sinusoidal Voltage. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 4868-4872.	1.3	5
23	Spatial&temporal evolutions of surface discharge patterns generated on dielectric target interacted with a plasma jet. <i>Plasma Processes and Polymers</i> , 2019, 16, 1900073.	3.0	13
24	Influence of external parameters on nonlinear behaviors in a helium dielectric-barrier discharge excited by a modulated voltage. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	8
25	Comparison of deionized and tap water activated with an atmospheric pressure glow discharge. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	12
26	Large-scale surface modification to improve hydrophilicity through using a plasma brush operated at one atmospheric pressure. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	23
27	Spatial&Temporal Evolution and Plasma Parameters&TM Diagnosis of a Transverse Glow Discharge in Atmospheric Pressure Air. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 1330-1335.	1.3	7
28	Characterization of a Laminar Plasma Plume Based on Dielectric-Barrier Discharge at Atmospheric Pressure. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 583-586.	1.3	8
29	Plume transition from solid to hollow with increasing the bias value of a sinusoidal voltage applied to an argon plasma jet. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700224.	3.0	18
30	Influence of driving frequency on discharge modes in the dielectric barrier discharge excited by a triangle voltage. <i>Physics of Plasmas</i> , 2018, 25, 013512.	1.9	11
31	A diffuse argon plume generated by a longitudinal slit jet equipped with a quadri-electrode barrier discharge. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	5
32	Dynamics of an atmospheric pressure planar plume with two naked electrodes excited by an alternating current voltage. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	9
33	Influence of voltage duty ratio on current asymmetry and mode of a helium dielectric-barrier discharge excited by a modulated voltage. <i>Physics of Plasmas</i> , 2018, 25, 073510.	1.9	8
34	Characteristics of a micro-gap argon barrier discharge excited by a saw-tooth voltage at atmospheric pressure. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	13
35	Three modes of a direct-current plasma jet operated underwater to degrade methylene blue. <i>Plasma Science and Technology</i> , 2017, 19, 115505.	1.5	8
36	Surface discharge induced interactions of filaments in argon dielectric barrier discharge at atmospheric pressure. <i>Physics of Plasmas</i> , 2017, 24, 103520.	1.9	6

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37	Generation of a planar direct-current glow discharge in atmospheric pressure air using rod array electrode. <i>Scientific Reports</i> , 2017, 7, 2672.	3.3	7
38	Spatial-temporal evolution of self-organized loop-patterns on a water surface and a diffuse discharge in the gap. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	6
39	Two modes of a plasma jet excited by a direct current voltage. <i>Plasma Sources Science and Technology</i> , 2016, 25, 025022.	3.1	10
40	Generation of a diffuse brush-shaped plasma plume using a dielectric barrier discharge at atmospheric pressure. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	7
41	Performance of a large-scale barrier discharge plume improved by an upstream auxiliary barrier discharge. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	18
42	A linear-field plasma jet for generating a brush-shaped laminar plume at atmospheric pressure. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	5
43	Improved performance of a barrier-discharge plasma jet biased by a direct-current voltage. <i>Scientific Reports</i> , 2016, 6, 35653.	3.3	13
44	A uniform laminar air plasma plume with large volume excited by an alternating current voltage. <i>Plasma Sources Science and Technology</i> , 2015, 24, 065020.	3.1	14
45	Diagnosis on the Plasma Parameters of an Atmospheric Pressure Uniform Discharge Operated in Open Air. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 024502.	1.6	3
46	A brush-shaped air plasma jet operated in glow discharge mode at atmospheric pressure. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	20
47	A Pulsing Argon Plasma Plume Excited by a Direct-Current Voltage. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 104501.	1.6	0
48	Characteristics of a Direct Current-driven plasma jet operated in open air. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	15
49	A large gap uniform discharge excited by a direct-current voltage at atmospheric pressure. <i>Applied Physics Letters</i> , 2013, 102, 223501.	3.3	10
50	Investigation on collisions of filament pairs in dielectric barrier discharge. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	6
51	Characteristics of an atmospheric-pressure argon plasma jet excited by a dc voltage. <i>Plasma Sources Science and Technology</i> , 2013, 22, 045007.	3.1	14
52	Self-pulsing discharge of a plasma brush operated in atmospheric-pressure argon. <i>Europhysics Letters</i> , 2013, 102, 55003.	2.0	12
53	Numerical simulation of operation modes in atmospheric pressure uniform barrier discharge excited by a saw-tooth voltage. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	18
54	Development of a dielectric barrier discharge enhanced plasma jet in atmospheric pressure air. <i>Physics of Plasmas</i> , 2012, 19, 093504.	1.9	10

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55	One atmospheric pressure plasma jet with two modes at a frequency of several tens kHz. <i>Physics of Plasmas</i> , 2011, 18, 043505.	1.9	18
56	Signal process of light emission patterns in argon/air dielectric barrier discharge. , 2010, , .		0
57	Diagnosis on the Molecular Vibrational Temperature of a Micro-Plasma Jet Operated at Atmospheric Pressure. , 2010, , .		0
58	Current Measurements and Diagnosis on Dielectric Barrier Discharge in a Coaxial Geometry at Atmospheric Pressure. , 2010, , .		0
59	Electromagnetic Signal Processing to Diagnose the Electron Density in Gas Discharge. , 2010, , .		0
60	Characteristics of an atmospheric pressure argon glow discharge in a coaxial electrode geometry. <i>Plasma Sources Science and Technology</i> , 2008, 17, 015017.	3.1	36
61	Spatio-temporal dynamics of discharge domains in a dielectric barrier discharge device. <i>Plasma Sources Science and Technology</i> , 2003, 12, 380-388.	3.1	33