

Yangyang Fu

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

902
citations

394421

19
h-index

526287

27
g-index

50
all docs

50
docs citations

50
times ranked

492
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical breakdown from macro to micro/nano scales: a tutorial and a review of the state of the art. Plasma Research Express, 2020, 2, 013001.	0.9	66
2	Zero index metamaterials with PT symmetry in a waveguide system. Optics Express, 2016, 24, 1648.	3.4	61
3	Transitions between electron emission and gas breakdown mechanisms across length and pressure scales. Journal of Applied Physics, 2020, 128, .	2.5	48
4	Paschen's curve in microgaps with an electrode surface protrusion. Applied Physics Letters, 2018, 113, .	3.3	35
5	Gas breakdown and its scaling law in microgaps with multiple concentric cathode protrusions. Applied Physics Letters, 2019, 114, .	3.3	31
6	Similarity of gas discharge in low-pressure argon gaps between two plane-parallel electrodes. High Voltage, 2016, 1, 86-89.	4.7	30
7	High-energy ballistic electrons in low-pressure radio-frequency plasmas. Plasma Sources Science and Technology, 2020, 29, 09LT01.	3.1	30
8	Effect of distribution of electric field on low-pressure gas breakdown. Physics of Plasmas, 2017, 24, .	1.9	29
9	On the Similarities of Low-Temperature Plasma Discharges. IEEE Transactions on Plasma Science, 2019, 47, 1994-2003.	1.3	29
10	Gas breakdown in atmospheric pressure microgaps with a surface protrusion on the cathode. Applied Physics Letters, 2018, 112, .	3.3	27
11	Additional modes in a waveguide system of zero-index-metamaterials with defects. Scientific Reports, 2015, 4, 6428.	3.3	26
12	Intersection of Paschen's curves for argon. Physics of Plasmas, 2016, 23, .	1.9	26
13	Evaluating microgap breakdown mode transition with electric field non-uniformity. Plasma Sources Science and Technology, 2018, 27, 095014.	3.1	25
14	Spatio-temporal dynamics of pulsed gas breakdown in microgaps. Physics of Plasmas, 2019, 26, 014506.	1.9	24
15	Temporal single-surface multipactor dynamics under obliquely incident linearly polarized electric field. Physics of Plasmas, 2019, 26, .	1.9	23
16	Electron dynamics in radio frequency magnetron sputtering argon discharges with a dielectric target. Plasma Sources Science and Technology, 2021, 30, 035019.	3.1	23
17	Transition characteristics of low-pressure discharges in a hollow cathode. Physics of Plasmas, 2017, 24, 083516.	1.9	20
18	Research on Similarity Law of Glow Discharge in Argon at Low Pressure by Numerical Simulation. IEEE Transactions on Plasma Science, 2014, 42, 1544-1551.	1.3	19

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19	Electromagnetic wave propagations in conjugate metamaterials. Optics Express, 2017, 25, 4952.	3.4	19
20	Effect of surface protrusion on plasma sheath properties in atmospheric microdischarges. Physics of Plasmas, 2018, 25, .	1.9	19
21	Similarity law and frequency scaling in low-pressure capacitive radio frequency plasmas. Applied Physics Letters, 2020, 117, .	3.3	19
22	Influence of metastable atoms in low pressure magnetized radio-frequency argon discharges. Journal Physics D: Applied Physics, 2020, 53, 435201.	2.8	19
23	Coherent perfect absorber and laser modes in purely imaginary metamaterials. Physical Review A, 2017, 96, .	2.5	18
24	Pressure effect on a tandem hollow cathode discharge in argon. Physics of Plasmas, 2017, 24, .	1.9	16
25	Validity of the similarity law for the glow discharges in non-plane-parallel gaps. Plasma Sources Science and Technology, 2014, 23, 065035.	3.1	15
26	Similarity of capacitive radio-frequency discharges in nonlocal regimes. Physics of Plasmas, 2020, 27, 113501.	1.9	15
27	Observation of electron runaway in a tip-plane air gap under negative nanosecond pulse voltage by PIC/MCC simulation. Plasma Sources Science and Technology, 2022, 31, 045027.	3.1	15
28	Cathode fall thickness of abnormal glow discharges between parallel-plane electrodes in different radii at low pressure. Physics of Plasmas, 2015, 22, .	1.9	14
29	Gas Breakdown in Microgaps With a Surface Protrusion On the Electrode. IEEE Transactions on Plasma Science, 2019, 47, 2011-2019.	1.3	14
30	Investigation on the effect of nonlinear processes on similarity law in high-pressure argon discharges. Physics of Plasmas, 2017, 24, 113518.	1.9	13
31	Observation of multilayer-structured discharge in plasma ionization breakdown. Applied Physics Letters, 2021, 119, .	3.3	13
32	Characterizing the dominant ions in low-temperature argon plasmas in the range of 1â€“800 Torr. Physics of Plasmas, 2018, 25, .	1.9	12
33	Asymmetric effects in waveguide systems using PT symmetry and zero index metamaterials. Scientific Reports, 2017, 7, 12476.	3.3	11
34	Breakdown, discharge modes, and gaseous recovery of atmospheric air with repetitive 10 ns pulses. Physics of Plasmas, 2021, 28, .	1.9	11
35	Generalizing Similarity Laws for Radio-Frequency Discharge Plasmas across Nonlinear Transition Regimes. Physical Review Applied, 2021, 16, .	3.8	11
36	Coherent perfect absorption and laser modes in a cylindrical structure of conjugate metamaterials. New Journal of Physics, 2018, 20, 013015.	2.9	10

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37	Transition characteristics and electron kinetics in microhollow cathode discharges. Journal of Applied Physics, 2021, 129, .	2.5	10
38	Comparison of 1D and 2D particle-in-cell simulations for DC magnetron sputtering discharges. Physics of Plasmas, 2021, 28, .	1.9	10
39	Direct current microplasma formation around microstructure arrays. Applied Physics Letters, 2021, 118, .	3.3	9
40	Transition of low-temperature plasma similarity laws from low to high ionization degree regimes. Plasma Sources Science and Technology, 2019, 28, 095012.	3.1	8
41	Similarity properties in capacitive radio frequency plasmas with nonlinear collision processes. Plasma Sources Science and Technology, 2021, 30, 115009.	3.1	8
42	Investigation on the similarity law of low-pressure glow discharges based on the light intensity distributions in geometrically similar gaps. Physics of Plasmas, 2017, 24, .	1.9	7
43	Online Measurement of Pulsed Electric Field of Insulator Surface in Vacuum Based on Kerr Effect. IEEE Transactions on Plasma Science, 2014, 42, 2986-2990.	1.3	5
44	Benchmark of the KGMf with a coupled Boltzmann equation solver. Computer Physics Communications, 2021, 260, 107748.	7.5	5
45	Extraordinary wave modes in purely imaginary metamaterials beyond the critical angle. Optics Express, 2021, 29, 2874.	3.4	3
46	Microplasma Formation Around a Microstructured Surface. , 2021, , .		1
47	On-line measurement of pulsed electric-field of insulator surface in vacuum based on Kerr effect. , 2013, , .		0
48	Distortion of the Electric Field Near Insulator Surface Observed With Electro-Optical Technique Measuring Kerr Effect. IEEE Transactions on Plasma Science, 2014, 42, 2574-2575.	1.3	0
49	Modification of Paschen's law for the nonuniform electric field between two plane-parallel electrodes. , 2015, , .		0
50	Multilayer-Structured Discharge in Plasma Ionization Breakdown near a Dielectric Surface. , 2021, , .		0