

XX Wang

List of Publications by Year in descending order

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papers

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all docs

37
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37
times ranked

286
citing authors

#	ARTICLE	IF	CITATIONS
1	Unbalanced distribution of electric current in underwater electrical wire array explosion. Journal Physics D: Applied Physics, 2022, 55, 185205.	2.8	2
2	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
3	Numerical Simulations for Design Optimization of Wire Array in Underwater Electrical Wire Explosion (UEWE). IEEE Transactions on Plasma Science, 2022, 50, 1833-1840.	1.3	3
4	Investigation of the microsecond-pulse acoustic wave generated by a single nanosecond-pulse discharge. Physics of Plasmas, 2022, 29, .	1.9	1
5	Direct current microplasma formation around microstructure arrays. Applied Physics Letters, 2021, 118, .	3.3	9
6	Breakdown, discharge modes, and gaseous recovery of atmospheric air with repetitive 10 ns pulses. Physics of Plasmas, 2021, 28, .	1.9	11
7	Effect of time interval between pulses on the synthetic sound generated by repetitive nanosecond pulse discharge. Physics of Plasmas, 2021, 28, .	1.9	5
8	Electrical explosion across gas-liquid interface: Aerosol breakdown, shock waves, and cavity dynamics. Physics of Fluids, 2021, 33, 077115.	4.0	8
9	Disinfection of <i>Escherichia coli</i> in ice by surface dielectric barrier discharge plasma. Applied Physics Letters, 2021, 119, 090601.	3.3	17
10	Similarity properties in capacitive radio frequency plasmas with nonlinear collision processes. Plasma Sources Science and Technology, 2021, 30, 115009.	3.1	8
11	Generalizing Similarity Laws for Radio-Frequency Discharge Plasmas across Nonlinear Transition Regimes. Physical Review Applied, 2021, 16, .	3.8	11
12	Effect of reflection patterns on converging shock waves generated by underwater electrical wire array explosion. Physics of Plasmas, 2020, 27, .	1.9	7
13	An Indirect Iterative Method to Couple the Generator to the MHD Load for Future Z-Pinch. IEEE Transactions on Plasma Science, 2020, 48, 3418-3423.	1.3	4
14	Diagnosis and Analysis of Load Current Divergence in Z-Pinch Experiments. IEEE Transactions on Plasma Science, 2020, 48, 3956-3961.	1.3	1
15	Similarity of capacitive radio-frequency discharges in nonlocal regimes. Physics of Plasmas, 2020, 27, 113501.	1.9	15
16	Comparison of underwater electrical wire explosions with large and small capacitors charged to a same energy. Physics of Plasmas, 2020, 27, 063504.	1.9	2
17	Investigation of sound generated by a DC biased rectangular AC current arc in ambient air. Physics of Plasmas, 2020, 27, 023509.	1.9	3
18	Enhancement of Shock Wave Generated by Underwater Electrical Wire-Array Explosion at a Fixed Energy and Mass of Wire-Array. IEEE Transactions on Plasma Science, 2020, 48, 3373-3377.	1.3	11

#	ARTICLE	IF	CITATIONS
19	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
20	Influencing Factors and Error Analysis of Pulse Current Measurement With Air-Core Rogowski Coil. IEEE Transactions on Plasma Science, 2020, 48, 4381-4386.	1.3	7
21	Resonant Frequencies in Monolithic Radial Transmission Line. IEEE Transactions on Plasma Science, 2020, 48, 4273-4278.	1.3	3
22	Field-Circuit Coupling Simulation of Petawatt-Class Z-Pinch Accelerator. IEEE Transactions on Plasma Science, 2019, 47, 2916-2921.	1.3	4
23	Investigation of current density, recombination rate and space charge density in polyethylene thin films based on bipolar charge transport model. Materials Research Express, 2019, 6, 096451.	1.6	8
24	Research at Tsinghua University on electrical explosions of wires. Matter and Radiation at Extremes, 2019, 4, .	3.9	19
25	Range and similarity of hollow cathode discharge in argon. High Voltage, 2019, 4, 217-220.	4.7	3
26	Computation of electron transport and relaxation properties in gases based on improved multi-term approximation of Boltzmann equation. Physics of Plasmas, 2018, 25, .	1.9	3
27	Underwater electrical wire explosion: Shock wave from melting being overtaken by shock wave from vaporization. Physics of Plasmas, 2018, 25, 053502.	1.9	14
28	Note: Measurement of the cathode layer thickness in glow discharges with a Langmuir probe. Review of Scientific Instruments, 2018, 89, 066103.	1.3	1
29	Effect of distribution of electric field on low-pressure gas breakdown. Physics of Plasmas, 2017, 24, .	1.9	29
30	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
31	Transition characteristics of low-pressure discharges in a hollow cathode. Physics of Plasmas, 2017, 24, 083516.	1.9	20
32	Determination of the cathode layer thickness in the normal glow discharge. Physics of Plasmas, 2017, 24, .	1.9	11
33	Intersection of Paschen's curves for argon. Physics of Plasmas, 2016, 23, .	1.9	26
34	Experiments of a monolithic radial transmission line. Review of Scientific Instruments, 2016, 87, 114702.	1.3	0
35	Similarity of gas discharge in low-pressure argon gaps between two plane-parallel electrodes. High Voltage, 2016, 1, 86-89.	4.7	30
36	Timing of x-ray burst from X-pinch. Physics of Plasmas, 2015, 22, 063105.	1.9	3

#	ARTICLE	IF	CITATIONS
37	The development of coated and non-coated wire explosions observed by X-ray backlighting. Physics of Plasmas, 2015, 22, 112707.	1.9	5