

Ya Nan Wang

List of Publications by Year in descending order

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papers

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docs citations

27
times ranked

228
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel trigger for pseudospark switch with high repetition rate, low jitter, and compact structure. Review of Scientific Instruments, 2018, 89, 065102.	1.3	43
2	Characteristics of exploding metal wires in water with three discharge types. Journal of Applied Physics, 2017, 122, .	2.5	36
3	A Subnanosecond Jitter Trigger Generator Utilizing Trigatron Switch and Avalanche Transistor Circuit. IEEE Transactions on Plasma Science, 2015, 43, 1054-1062.	1.3	34
4	Further Investigations on a Modified Avalanche Transistor-Based Marx Bank Circuit. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8506-8513.	4.7	22
5	Experiments on plasma dynamics of electrical wire explosion in air. High Voltage, 2022, 7, 117-136.	4.7	22
6	A platform for exploding wires in different media. Review of Scientific Instruments, 2017, 88, 103504.	1.3	20
7	Discharge Characteristics of a Pseudospark Switch in Series With a Saturable Inductor. IEEE Transactions on Plasma Science, 2019, 47, 4572-4578.	1.3	16
8	High voltage nanosecond pulse generator based on avalanche transistor Marx bank circuit and linear transformer driver. Review of Scientific Instruments, 2021, 92, 034715.	1.3	16
9	The effect of frequency on atmospheric pressure glow discharge in a pin-to-plate gap sustained by a resonant power supply. Physics of Plasmas, 2016, 23, 063518.	1.9	15
10	Application of Two-Phase Immersion Cooling Technique for Performance Improvement of High Power and High Repetition Avalanche Transistorized Subnanosecond Pulse Generators. IEEE Transactions on Power Electronics, 2022, 37, 3024-3039.	7.9	15
11	Spatial-temporal evolution of plasma radiation in electrical wire explosion: a morphological observation. Journal Physics D: Applied Physics, 2020, 53, 345201.	2.8	14
12	A comparison study of exploding a Cu wire in air, water, and solid powders. Physics of Plasmas, 2017, 24, 113515.	1.9	11
13	An Investigation of Discharge Characteristics of an Electrothermal Pulsed Plasma Thruster. IEEE Transactions on Plasma Science, 2017, 45, 2715-2724.	1.3	9
14	A Novel Avalanche Transistor-Based Nanosecond Pulse Generator With a Wide Working Range and High Reliability. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	9
15	A diffusive atmospheric pressure glow discharge in a coaxial pin-to-ring gap with a transverse magnetic field. AIP Advances, 2017, 7, .	1.3	8
16	High power and high repetition frequency sub-nanosecond pulse generator with two-phase immersion cooling technique. Review of Scientific Instruments, 2021, 92, 034716.	1.3	8
17	Electrical explosion across gas-liquid interface: Aerosol breakdown, shock waves, and cavity dynamics. Physics of Fluids, 2021, 33, 077115.	4.0	8
18	Experimental study on the discharge ignition in a capillary discharge based pulsed plasma thruster. Physics of Plasmas, 2018, 25, 093512.	1.9	7

#	ARTICLE	IF	CITATIONS
19	Development and analysis of a novel printed circuit board electrostatic comb system for micro-newton thrust stand calibration. <i>Review of Scientific Instruments</i> , 2018, 89, 075104.	1.3	7
20	A torsional thrust balance with asymmetrical configuration for microthruster performance evaluation. <i>Review of Scientific Instruments</i> , 2019, 90, 076111.	1.3	6
21	Effects of water states on the process of underwater electrical wire explosion under micro-second timescale pulsed discharge. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	6
22	Output Current Optimization for Multibrick Parallel Discharge Drivers Based on Genetic Algorithm. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 3015-3025.	1.3	5
23	Plasma plume evolution of a capillary discharge based pulsed plasma thruster: An optical diagnosis study. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	5
24	New advances in solid-state pulse generator based on magnetic switches. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	5
25	A diffusive atmospheric pressure glow discharge obtained by applying an external transverse magnetic field. <i>Physics of Plasmas</i> , 2018, 25, 093516.	1.9	4
26	Modeling and Experimental Study on Multibrick Parallel Discharge Driver Based on PEEC Method. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 3364-3373.	1.3	2
27	Self-triggering topology for high-power nanosecond pulse generators based on avalanche transistors Marx bank circuits and linear transformer driver. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	2