Ya Nan Wang

List of Publications by Year
in descending order

27 papers	355 citations	840776 11 h-index	839539 18 g-index
27 all docs	27 docs citations	27 times ranked	228 citing authors

#	Article	IF	Citations
1	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
2	Experiments on plasma dynamics of electrical wire explosion in air. High Voltage, 2022, 7, 117-136.	4.7	22
3	New advances in solid-state pulse generator based on magnetic switches. Review of Scientific Instruments, 2022, 93, .	1.3	5
4	Self-triggering topology for high-power nanosecond pulse generators based on avalanche transistors Marx bank circuits and linear transformer driver. Review of Scientific Instruments, 2022, 93, .	1.3	2
5	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
6	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
7	Electrical explosion across gasâ€“liquid interface: Aerosol breakdown, shock waves, and cavity dynamics. Physics of Fluids, 2021, 33, 077115.	4.0	8
8	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
9	Plasma plume evolution of a capillary discharge based pulsed plasma thruster: An optical diagnosis study. Physics of Plasmas, 2021, 28, .	1.9	5
10	Spatialâ€“temporal evolution of plasma radiation in electrical wire explosion: a morphological observation. Journal Physics D: Applied Physics, 2020, 53, 345201.	2.8	14
11	Further Investigations on a Modified Avalanche Transistor-Based Marx Bank Circuit. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8506-8513.	4.7	22
12	Effects of water states on the process of underwater electrical wire explosion under micro-second timescale pulsed discharge. European Physical Journal Plus, 2020, 135, 1.	2.6	6
13	Discharge Characteristics of a Pseudospark Switch in Series With a Saturable Inductor. IEEE Transactions on Plasma Science, 2019, 47, 4572-4578.	1.3	16
14	A torsional thrust balance with asymmetrical configuration for microthruster performance evaluation. Review of Scientific Instruments, 2019, 90, 076111.	1.3	6
15	Output Current Optimization for Multibrick Parallel Discharge Drivers Based on Genetic Algorithm. IEEE Transactions on Plasma Science, 2019, 47, 3015-3025.	1.3	5
16	A diffusive atmospheric pressure glow discharge obtained by applying an external transverse magnetic field. Physics of Plasmas, 2018, 25, 093516.	1.9	4
17	Experimental study on the discharge ignition in a capillary discharge based pulsed plasma thruster. Physics of Plasmas, 2018, 25, 093512.	1.9	7
18	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

#	Article	IF	Citations
19	Development and analysis of a novel printed circuit board electrostatic comb system for micro-newton thrust stand calibration. Review of Scientific Instruments, 2018, 89, 075104.	1.3	7
20	Modeling and Experimental Study on Multibrick Parallel Discharge Driver Based on PEEC Method. IEEE Transactions on Plasma Science, 2018, 46, 3364-3373.	1.3	2
21	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
22	An Investigation of Discharge Characteristics of an Electrothermal Pulsed Plasma Thruster. IEEE Transactions on Plasma Science, 2017, 45, 2715-2724.	1.3	9
23	Characteristics of exploding metal wires in water with three discharge types. Journal of Applied Physics, 2017, 122, .	2.5	36
24	A comparison study of exploding a Cu wire in air, water, and solid powders. Physics of Plasmas, 2017, 24, 113515.	1.9	11
25	A platform for exploding wires in different media. Review of Scientific Instruments, 2017, 88, 103504.	1.3	20
26	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
27	A Subnanosecond Jitter Trigger Generator Utilizing Trigatron Switch and Avalanche Transistor Circuit. IEEE Transactions on Plasma Science, 2015, 43, 1054-1062.	1.3	34