Bao-Liang Qian

List of Publications by Year
in descending order

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64	902	567281	501196
papers	citations	15	28
		h-index	g-index

64	64	64	403
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation on a Self-Breakdown Repetitive Gap Switch Based on the Graphite Electrodes With TiC Surface Modification. IEEE Transactions on Plasma Science, 2022, 50, 709-714.	1.3	0
2	Investigation of an X-band Cerenkov-type high power microwave oscillator driven by sheet electron beam. AIP Advances, 2021, 11, 055001.	1.3	1
3	A durable microsecond solid-state pulsed power system. Review of Scientific Instruments, 2021, 92, 054707.	1.3	2
4	A high power radial Ka-band transit time oscillator with nonuniform extractor. Physica Scripta, 2020, 95, 035503.	2.5	3
5	Preliminary experimental research of a Ka-band radial transit time oscillator. Review of Scientific Instruments, 2020, 91, 104701.	1.3	4
6	A high power capacity Ka-band radial transit time oscillator with one-gap extraction cavity. AIP Advances, 2020, 10, 025107.	1.3	2
7	Analysis and Simulation of a Gigawatt-ClassKa-Band Radial Transit Time Oscillator. IEEE Transactions on Electron Devices, 2019, 66, 3178-3183.	3.0	13
8	Bubble deformation in the repetitive pulsed glycerin pulse forming line and its relation with the liquid breakdown. AIP Advances, 2019, 9, 115102.	1.3	1
9	Unusual Response of Thin LiTaO3 Films to Intense Microwave Pulses. Materials, 2019, 12, 3588.	2.9	1
10	Development of a GW-Level Solid-State Long Pulse Generator. IEEE Transactions on Plasma Science, 2019, 47, 4512-4517.	1.3	7
11	Investigation on Dynamic Properties of Amorphous Magnetic Core Stimulated by Different Driving Voltages. IEEE Transactions on Plasma Science, 2019, 47, 4536-4540.	1.3	3
12	The possibility of using glycerin as the dielectric in pulse forming lines. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 339-345.	2.9	4
13	Investigation on Adjustable Magnetic Pulse Compressor in Power Supply System. IEEE Transactions on Power Electronics, 2019, 34, 1540-1547.	7.9	19
14	Developing a solid-state quasi-square pulse Marx generator. Review of Scientific Instruments, 2018, 89, 064707.	1.3	8
15	A frequency tunable relativistic magnetron with a wide operation regime. AIP Advances, 2017, 7, .	1.3	5
16	A modified relativistic magnetron with TEM output mode. Physics of Plasmas, 2017, 24, .	1.9	14
17	Theoretical investigations on radiation generation of TEM, linearly or circularly polarized TEn1 coaxial waveguide mode in relativistic magnetron. Scientific Reports, 2017, 7, 1491.	3.3	4
18	Performance testing of a carbon fiber array cathode in a hard-tube MILO. Journal of Applied Physics, 2017, 122, .	2.5	5

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19	Outgassing rate analysis of a velvet cathode and a carbon fiber cathode. Journal of Applied Physics, 2017, 122, .	2.5	4
20	Development of a test platform for high voltage ceramic capacitors based on magnetic compression. , 2016, , .		1
21	A smart repetitive-rate wideband high power microwave source. Physics of Plasmas, 2016, 23, 013106.	1.9	2
22	A high-voltage, long-pulse generator based on magnetic pulse compressor and Blumlein-type rolled strip pulse forming line. Laser and Particle Beams, 2015, 33, 511-518.	1.0	6
23	Preliminary experimental investigation of a complex dual-band high power microwave source. Review of Scientific Instruments, 2015, 86, 104703.	1.3	7
24	A gigawatt level repetitive rate adjustable magnetic pulse compressor. Review of Scientific Instruments, 2015, 86, 084705.	1.3	1
25	Ku-Band Rectangular Waveguide Wide Side Dimension Adjustable Phase Shifter. IEEE Transactions on Plasma Science, 2015, 43, 1666-1669.	1.3	12
26	A Compact Mode Conversion Configuration in Relativistic Magnetron With a TE₁₀ Output Mode. IEEE Transactions on Plasma Science, 2015, 43, 3512-3516.	1.3	9
27	An Adjustable Magnetic Switch. IEEE Transactions on Plasma Science, 2015, 43, 2687-2693.	1.3	6
28	A new coaxial high power microwave source based on dual beams. Physics of Plasmas, 2014, 21, 053302.	1.9	9
29	A compact relativistic backward-wave oscillator with metallized plastic components. Applied Physics Letters, 2014, 105, 123501.	3.3	12
30	Investigation on a High Power, Low Impedance, and Long Pulse Generator Based on Magnetic Switches. IEEE Transactions on Plasma Science, 2014, 42, 988-992.	1.3	16
31	The mechanism and realization of a band-agile coaxial relativistic backward-wave oscillator. Applied Physics Letters, 2014, 105, 183503.	3.3	18
32	Compact Rep-Rate GW Pulsed Generator Based on Forming Line With Built-In High-Coupling Transformer. IEEE Transactions on Plasma Science, 2014, 42, 241-248.	1.3	27
33	A Novel Phase Shifter for Ku-Band High-Power Microwave Applications. IEEE Transactions on Plasma Science, 2014, 42, 51-54.	1.3	26
34	A high efficient relativistic backward wave oscillator with coaxial nonuniform slow-wave structure and depth-tunable extractor. Physics of Plasmas, 2013, 20, 023105.	1.9	18
35	Derivation and generalization of the dispersion relation of rising-sun magnetron with sectorial and rectangular cavities. Physics of Plasmas, 2013, 20, 123113.	1.9	4
36	Application of high speed frame camera on the intense electron beam accelerator: An overview. Laser and Particle Beams, 2013, 31, 643-652.	1.0	2

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37	Experimental study of a compact P-band coaxial relativistic backward wave oscillator with three periods slow wave structure. Physics of Plasmas, 2012, 19, .	1.9	9
38	Experimental investigations of the TE11 mode radiation from a relativistic magnetron with diffraction output. Physics of Plasmas, 2012, 19, .	1.9	6
39	Measurement of S-Band Microwave Gas Breakdown by Enhancing the Electric Field in a Waveguide. IEEE Transactions on Plasma Science, 2012, 40, 3427-3432.	1.3	10
40	Characteristics of long gap surface flashover channel in vacuum under nanosecond quasi-square pulses. Applied Physics Letters, 2012, 101, 082903.	3.3	7
41	Output voltage waveform analysis of an intense electron beam accelerator based on strip spiral Blumlein line. Laser and Particle Beams, 2012, 30, 379-385.	1.0	5
42	Operating characteristics of intense electron beam accelerator at different load conditions. Laser and Particle Beams, 2012, 30, 531-539.	1.0	2
43	Experimental investigation of surface flashover of PMMA, HDPE and PA in vacuum using 180 nanosecond quasi-square pulses. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1440-1447.	2.9	6
44	Gas breakdown driven by L band short-pulse high-power microwave. Physics of Plasmas, 2012, 19, 122101.	1.9	23
45	A compact P-band coaxial relativistic backward wave oscillator with only three periods slow wave structure. Physics of Plasmas, 2011, 18, .	1.9	17
46	Recent Advance in Long-Pulse HPM Sources With Repetitive Operation in S-, C-, and X-Bands. IEEE Transactions on Plasma Science, 2011, 39, 1438-1445.	1.3	191
47	Surface Flashover Phenomenon Under 180-ns Quasi-Square Wave With Voltage of Several Hundred Kilovolts. IEEE Transactions on Plasma Science, 2011, 39, 1868-1873.	1.3	5
48	An L-band coaxial relativistic backward wave oscillator with mechanical frequency tunability. Applied Physics Letters, 2010, 97, .	3.3	73
49	Asymmetric-mode competition in a relativistic backward wave oscillator with a coaxial slow-wave structure. Applied Physics Letters, 2010, 97, .	3.3	49
50	Research of a High-Current Repetitive Triggered Spark-Gap Switch and its Application. IEEE Transactions on Plasma Science, 2010, 38, 516-522.	1.3	38
51	Dispersive characteristics and longitudinal resonance properties in a relativistic backward wave oscillator with the coaxial arbitrary-profile slow-wave structure. Physics of Plasmas, 2009, 16, 113104.	1.9	17
52	The space-charge limiting current of a sheet relativistic electron beam in a rippled rectangular waveguide. Physics of Plasmas, 2009, 16, 083106.	1.9	8
53	Transversal and longitudinal mode selections in double-corrugation coaxial slow-wave devices. Physics of Plasmas, 2009, 16, .	1.9	31
54	Electron beam propagation in a coaxial drift cavity with split-foil. , 2008, , .		0

#	Article	IF	Citations
55	Particle simulation of a sinusoidal corrugation compact L-band coaxial backward wave oscillator. , 2008, , .		0
56	Analytical and numerical calculations of the dispersion characteristics of two-dimensional dielectric photonic band gap structures. Journal of Applied Physics, 2006, 99, 063104.	2.5	11
57	A novel TEM-TE/sub 11/ mode converter. IEEE Microwave and Wireless Components Letters, 2005, 15, 513-515.	3.2	72
58	Two-dimensional analysis of the relativistic parapotential electron flow in a magnetically insulated transmission line oscillator (MILO). IEEE Transactions on Plasma Science, 2000, 28, 760-766.	1.3	6
59	Experiment on the plasma-loaded backward-wave oscillator using a gas-loaded foil-less diode. Journal of Applied Physics, 2000, 88, 3059-3063.	2.5	5
60	Relativistic motion of a charged particle in a superposition of circularly polarized plane electromagnetic waves and a uniform magnetic field. Physics of Plasmas, 2000, 7, 537-543.	1.9	15
61	An exact solution of the relativistic equation of motion of a charged particle driven by a circularly polarized electromagnetic wave and a constant magnetic field. IEEE Transactions on Plasma Science, 1999, 27, 1578-1581.	1.3	10
62	Relativistic electron-beam generation in a gas-loaded foil-less diode. Applied Physics Letters, 1998, 73, 2420-2422.	3.3	10
63	High-power microwave generation by a plasma-loaded backward-wave oscillator. , 0, , .		0
64	Analytical and Numerical Calculations of Two Dimensional Dielectric Photonic Band Gap Structures and Cavities for Laser Acceleration. , 0, , .		0