

Ruslan Tsygankov

List of Publications by Year in descending order

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23
papers

206
citations

1307594

7
h-index

996975

15
g-index

23
all docs

23
docs citations

23
times ranked

130
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Wave Cherenkov Oscillator With Moderately Oversized Slow-Wave Structure. IEEE Transactions on Plasma Science, 2018, 46, 33-42.	1.3	55
2	Two-Wave Ka-Band Nanosecond Relativistic Cherenkov Oscillator. IEEE Transactions on Electron Devices, 2018, 65, 3019-3025.	3.0	34
3	S-Band Coaxial Vircator With Electron Beam Premodulation Based on Compact Linear Transformer Driver. IEEE Transactions on Plasma Science, 2010, 38, 2819-2824.	1.3	28
4	Stable Operation of a Repetitively Pulsed X-Band Relativistic Backward Wave Oscillator. IEEE Electron Device Letters, 2021, 42, 935-938.	3.9	24
5	Numerical and experimental investigation of 4 mm wavelength microwave oscillator based on high-current compact accelerator. Physics of Plasmas, 2018, 25, .	1.9	14
6	Mode selection in an S-band relativistic backward wave oscillator based on a coaxial waveguide. Technical Physics Letters, 2014, 40, 152-156.	0.7	11
7	Measuring the virtual cathode velocity. Technical Physics Letters, 2008, 34, 546-548.	0.7	8
8	High-Voltage Drivers Based on Forming Lines with Extended Quasi-Rectangular Pulses for High-Power Microwave Oscillators. Electronics (Switzerland), 2022, 11, 406.	3.1	7
9	Experimental study of the electron beam compressed state breakup. Technical Physics Letters, 2011, 37, 128-131.	0.7	5
10	Oxide-coated Al cathode for decreasing electron leakage and increasing electrical strength of vacuum insulation in the nanosecond pulse range. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 2143-2150.	2.9	4
11	On the radiation phase stability of a relativistic coaxial backward-wave oscillator at decimeter wavelengths. Technical Physics Letters, 2015, 41, 32-35.	0.7	4
12	Motion of a virtual cathode in a cylindrical channel with electron beam transport in the compressed state. Physics of Plasmas, 2014, 21, .	1.9	3
13	Comparative Study of Breakdown Strength of Vacuum Insulation in Gaps with Electron-Beam Polished Electrodes under Pulsed DC and Microwave Electric Fields. , 2018, , .		3
14	High-Efficiency Relativistic Generators of Nanosecond Pulses in the Millimeter-Wavelength Range. Radiophysics and Quantum Electronics, 2019, 62, 467-471.	0.5	2
15	Wideband Overmoded Liquid Calorimeter for High-Power Microwaves: Centimeters to Millimeters. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-6.	4.7	2
16	Effect of Electron-beam Polishing of Electrodes on Hold-off at Pulsed DC and Microwave Electric Fields in Vacuum. , 2018, , .		1
17	Radiation dose simulation for high-current repetitively pulsed electron accelerator. Radiation Physics and Chemistry, 2022, 195, 110059.	2.8	1
18	S-band coaxial vircator with electron beam premodulation. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
19	High-power single-mode microwave generation by coaxial vircator. , 2010, , .		0
20	Multi-GW relativistic backward wave oscillator with TM ₀₂ operating mode. , 2015, , .		0
21	About the selection of transverse modes in the X-band oversized oscillator with 2.5 GW output power. Journal of Physics: Conference Series, 2017, 830, 012011.	0.4	0
22	Cherenkov Ka-Band Oscillator with 45% Efficiency of Beam-to-Microwave Power Conversion. , 2018, , .		0
23	A heterodyne circuit for measuring the spectral characteristics of Ka-band nanosecond high power microwave pulses. , 2020, , .		0