

# Jun Sun

## List of Publications by Year in descending order

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31  
papers

295  
citations

840776

11  
h-index

888059

17  
g-index

31  
all docs

31  
docs citations

31  
times ranked

123  
citing authors

#	ARTICLE	IF	CITATIONS
1	An overmoded relativistic backward wave oscillator with efficient dual-mode operation. Applied Physics Letters, 2014, 104, 093505.	3.3	46
2	Efficient generation of multi-gigawatt power by an X-band dual-mode relativistic backward wave oscillator operating at low magnetic field. Physics of Plasmas, 2020, 27, .	1.9	34
3	RF Breakdown of the Resonant Reflector in a Relativistic Backward Wave Oscillator. IEEE Transactions on Plasma Science, 2018, 46, 900-908.	1.3	26
4	Effective suppression of pulse shortening in a relativistic backward wave oscillator. Physics of Plasmas, 2017, 24, .	1.9	22
5	Over-Sized Mode-Selective Relativistic Backward Wave Oscillator. IEEE Electron Device Letters, 2019, 40, 1530-1533.	3.9	19
6	Role of dc space charge field in the optimization of microwave conversion efficiency from a modulated intense relativistic electron beam. Journal of Applied Physics, 2013, 114, .	2.5	18
7	Exploration of Collector Materials in High-Power Microwave Sources. IEEE Transactions on Plasma Science, 2018, 46, 384-389.	1.3	18
8	Influence of cathode emission uniformity on microwave generation in relativistic backward wave oscillator. Journal of Applied Physics, 2017, 122, .	2.5	16
9	Influence of wall plasma on microwave frequency and power in relativistic backward wave oscillator. Physics of Plasmas, 2015, 22, .	1.9	14
10	Research on 3-GW Repetitively Operating Relativistic Backward Wave Oscillator. IEEE Transactions on Plasma Science, 2020, 48, 3535-3543.	1.3	13
11	Studies of a high-efficiency, long-pulse relativistic backward wave oscillator. Physics of Plasmas, 2021, 28, .	1.9	13
12	Mechanism of radio frequency breakdown on metal surfaces in relativistic backward wave oscillator. Physics of Plasmas, 2021, 28, .	1.9	8
13	Lifetime of Metallic Explosive Emission Cathodes and Microscopic Explanations. IEEE Transactions on Plasma Science, 2017, 45, 2279-2285.	1.3	7
14	Effect of Local Electric Field on Radial Oscillation of Electron Beam in Low-Magnetic-Field Foilless Diode. IEEE Transactions on Plasma Science, 2020, 48, 1259-1263.	1.3	7
15	Power capacity enhancement for klystron-like RBWOs with a TM021 extraction cavity. Physics of Plasmas, 2018, 25, .	1.9	6
16	Efficiency Enhancement of a Klystron-Like Relativistic Backward Wave Oscillator With Waveguide Reflection and Bunching Promotion. IEEE Access, 2020, 8, 164972-164976.	4.2	4
17	Experimental study of destructive effects on materials with different energy electron bombardment. AIP Advances, 2021, 11, .	1.3	4
18	Investigation of an X band high efficiency klystron-like relativistic backward wave oscillator. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 164102.	0.5	4

#	ARTICLE	IF	CITATIONS
19	Mixed-Modes Conversion Method for Dual-Mode Relativistic Backward-Wave Oscillators. IEEE Microwave and Wireless Components Letters, 2021, 31, 1243-1246.	3.2	3
20	Investigation of damage traces on the SWS of the RBWO with a low guiding magnetic field. Physics of Plasmas, 2021, 28, .	1.9	2
21	Analysis of Ohmic loss due to non-ideal boundary in relativistic backward wave oscillator. AIP Advances, 2021, 11, .	1.3	2
22	Effect of non-uniform magnetic field on radial oscillation of electron beam in a low-magnetic-field foilless diode. Journal Physics D: Applied Physics, 2022, 55, 245005.	2.8	2
23	Efficiency improvement by a beam filtering ring in a relativistic backward wave oscillator at low magnetic field. Physics of Plasmas, 2022, 29, .	1.9	2
24	A novel self-injection relativistic backward wave oscillator. Journal Physics D: Applied Physics, 2022, 55, 135202.	2.8	2
25	Analyses of bombardment traces on the tube head of a relativistic backward wave oscillator. Physics of Plasmas, 2019, 26, 113106.	1.9	1
26	Analysis of Destructive Effects with Electron Bombardment in Slow-Wave Structures. Laser and Particle Beams, 2022, 2022, .	1.0	1
27	An oversized Ku-band Cerenkov oscillator with pure $TM_{01}$ mode output. Physics of Plasmas, 2022, 29, 063103.	1.9	1
28	Lifetime advantage and failure mechanism of a metal-ferroelectric cathode. Physics of Plasmas, 2017, 24, 103102.	1.9	0
29	Plasma effects of the directional coupler for high-power microwave measurements. Physics of Plasmas, 2018, 25, 072122.	1.9	0
30	Research on effects of space charge field in relativistic backward wave oscillator. Physics of Plasmas, 2020, 27, 093104.	1.9	0
31	Radial oscillation of intense relativistic electron beam in low-magnetic-field foil-less diode. AIP Advances, 2022, 12, 045320.	1.3	0