Yan Teng

List of Publications by Year
in descending order

68 papers	637 citations	567281 15 h-index	642732 23 g-index
68 all docs	68 docs citations	68 times ranked	332 citing authors

#	Article	IF	Citations
1	A Ka-band TM02 mode relativistic backward wave oscillator with cascaded resonators. Physics of Plasmas, 2014, 21, .	1.9	48
2	An overmoded relativistic backward wave oscillator with efficient dual-mode operation. Applied Physics Letters, 2014, 104, 093505.	3.3	46
3	A millimeter wave relativistic backward wave oscillator operating in TM03 mode with low guiding magnetic field. Physics of Plasmas, 2015, 22, .	1.9	36
4	Phase locking of high power relativistic backward wave oscillator using priming effect. Journal of Applied Physics, 2012, 111, .	2.5	31
5	A high-order mode extended interaction klystron at 0.34 THz. Physics of Plasmas, 2017, 24, .	1.9	27
6	RF Breakdown of the Resonant Reflector in a Relativistic Backward Wave Oscillator. IEEE Transactions on Plasma Science, 2018, 46, 900-908.	1.3	26
7	A powerful reflector in relativistic backward wave oscillator. Physics of Plasmas, 2014, 21, .	1.9	22
8	Effective suppression of pulse shortening in a relativistic backward wave oscillator. Physics of Plasmas, 2017, 24, .	1.9	22
9	Influences of the Modulation Cavity and Extraction Cavity on Microwave Generation and Starting Oscillation in a Klystron-Like Relativistic Backward Wave Oscillator. IEEE Transactions on Electron Devices, 2014, 61, 611-616.	3.0	21
10	Rapid startup in relativistic backward wave oscillator by injecting external backward signal. Physics of Plasmas, 2012, 19, .	1.9	20
11	A New Reflector Designed for Efficiency Enhancement of CRBWO. IEEE Transactions on Plasma Science, 2009, 37, 1062-1068.	1.3	18
12	Improving the microwave window breakdown threshold by using a fluorinated, periodically patterned surface. Journal of Applied Physics, 2013, 114, 163304.	2.5	18
13	Starting current of coaxial relative backward wave oscillator. Physics of Plasmas, 2010, 17, .	1.9	16
14	Influence of cathode emission uniformity on microwave generation in relativistic backward wave oscillator. Journal of Applied Physics, 2017, 122, .	2.5	16
15	High-efficiency coaxial relativistic backward wave oscillator. Review of Scientific Instruments, 2011, 82, 024701.	1.3	15
16	Design and efficient operation of a coaxial RBWO. Laser and Particle Beams, 2013, 31, 321-331.	1.0	15
17	Tunability over three frequency bands induced by mode transition in relativistic backward wave oscillator with strong end reflections. Physics of Plasmas, 2014, 21, 103110.	1.9	15
18	Preliminary research on overmoded high-power millimeter-wave Cerenkov generator with dual-cavity reflector in low guiding magnetic field. Physics of Plasmas, 2015, 22, .	1.9	15

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19	Limitation of cross-excitation instability in a relativistic Cerenkov generator with coaxial slow wave structure. Physics of Plasmas, 2008, 15, 053107.	1.9	14
20	High efficiency coaxial klystron-like relativistic backward wave oscillator with a premodulation cavity. Physics of Plasmas, 2011, 18, 113102.	1.9	14
21	Influence of wall plasma on microwave frequency and power in relativistic backward wave oscillator. Physics of Plasmas, 2015, 22, .	1.9	14
22	Development of a new pneumatic-driven earthworm-like soft robot. , 2016, , .		13
23	A high-order mode extended interaction oscillator operating in the Y band. Physics of Plasmas, 2018, 25, .	1.9	11
24	Design and characteristic study of a pneumatically actuated earthworm-like soft robot. , 2015, , .		10
25	Theoretical and experimental research on a high efficiency X-band klystron-like RBWO. AIP Advances, 2018, 8, .	1.3	9
26	Numerical and Experimental Studies on Frequency Characteristics of $hbox{TE}_{11}$-Mode Enhanced Coaxial Vircator. IEEE Transactions on Plasma Science, 2011, 39, 1762-1767.	1.3	8
27	Theoretical research on power handling capacity of the modes TM01 and TM02 in corrugated waveguides. Physics of Plasmas, 2019, 26, .	1.9	8
28	Microwave generation enhancement of X-band CRBWO by use of coaxial dual annular cathodes. AIP Advances, 2013, 3, .	1.3	6
29	Power capacity enhancement for klystron-like RBWOs with a TM021 extraction cavity. Physics of Plasmas, 2018, 25, .	1.9	6
30	Research on Voltage and Current Transient Process of Foilless Diode for RBWO. IEEE Transactions on Plasma Science, 2013, 41, 2763-2768.	1.3	5
31	Analysis of electron dynamics and two mechanisms in a coaxial magnetic wiggler. Physics of Plasmas, 2014, 21, 123119.	1.9	5
32	Optimum design and measurement analysisof 0.34 THz extended interaction klystron. AIP Advances, 2018, 8, .	1.3	5
33	A GW-level Ku-band oversized coaxial relativistic Cerenkov generator with low guiding magnetic field. AIP Advances, 2019, 9, .	1.3	5
34	A compact coaxial cusped periodic permanent magnet for a coaxial relativistic ÄŒerenkov generator. Physics of Plasmas, 2020, 27, .	1.9	5
35	Pulse Lengthening of the Microwave Generated by TMâ,€â„¢ ModeKa-Band RBWO Operating With Low Guiding Magnetic Field. IEEE Transactions on Electron Devices, 2021, 68, 3015-3020.	3.0	5
36	Influence of voltage rise time on microwave generation in relativistic backward wave oscillator. Physics of Plasmas, 2015, 22, .	1.9	4

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37	Optimization of the multi-slot cavity and drift in a 0.34 THz extended interaction klystron. Physics of Plasmas, 2016, 23, .	1.9	4
38	Relativistic backward wave oscillator operating in TM02 with cutoff-type resonant reflector. Physics of Plasmas, 2017, 24, .	1.9	4
39	Mode analysis of an overmoded extended interaction cavity in terahertz EIK. , 2017, , .		4
40	Theoretical Research on Properties of Spatial Harmonics in Corrugated Waveguide. IEEE Access, 2019, 7, 167784-167794.	4.2	4
41	Emission Uniformity of an Annular Graphite Cathode With a Focusing Electrode in a High Power Vacuum Diode. IEEE Access, 2020, 8, 19026-19032.	4.2	4
42	A novel high power vacuum diode with a focusing electrode for effective operation in a low guiding magnetic field. Review of Scientific Instruments, 2020, 91, 014706.	1.3	4
43	Investigation of an X band high efficiency klystron-like relativistic backward wave oscillator. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 164102.	0.5	4
44	Generation of beating wave by multi-coaxial relativistic backward wave oscillator. Laser and Particle Beams, 2013, 31, 703-714.	1.0	3
45	Influence of emission threshold and current increase rate on microwave starting time in relativistic backward wave oscillator. Physics of Plasmas, 2017, 24, .	1.9	3
46	Increasing the bandwidth of an extended interaction klystron at 0.34 THz by staggered tuning of the multi-gap cavities. Europhysics Letters, 2018, 123, 49001.	2.0	3
47	A novel structure for extended interaction oscillators operating at 0.3â€ŠTHz. Europhysics Letters, 2019, 127, 39001.	2.0	3
48	Theoretical research on the annular intensive relativistic electron motion focused by coaxial cusped periodic permanent magnetic field. Physics of Plasmas, 2020, 27, 053104.	1.9	3
49	Experimental Study on a Moderately Overmoded Ka-Band Cherenkov Oscillator Operating With Low Magnetic Field. IEEE Transactions on Electron Devices, 2020, 67, 2905-2911.	3.0	3
50	Theoretical and Experimental Studies on the Asymmetric Mode Competition in an Overmoded Ka-Band Cerenkov Oscillator. IEEE Transactions on Electron Devices, 2021, 68, 1289-1297.	3.0	3
51	Effect of end reflections on conversion efficiency of coaxial relativistic backward wave oscillator. Journal of Applied Physics, 2015, 118, 173103.	2.5	2
52	Research on origination of oscillations and microwave growth in weakly resonant RBWOs. Physics of Plasmas, 2017, 24, 093115.	1.9	2
53	Investigation of damage traces on the SWS of the RBWO with a low guiding magnetic field. Physics of Plasmas, 2021, 28, .	1.9	2
54	Growth rate of the Coaxial Slow Wave Structure. , 2009, , .		1

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55	Characteristics of plasma process in explosive electron emission. , 2015, , .		1
56	A powerful coaxial relativistic backward wave oscillator. , 2016, , .		1
57	Study on the stability and reliability of Clinotron at Y-band. Physics of Plasmas, 2017, 24, 113108.	1.9	1
58	Optical diagnosis of spatiotemporal development of plasma discharge in high power microwave sources. Applied Physics Letters, 2017, 111, 163505.	3.3	1
59	A high efficient X-band klystron-like RBWO. , 2017, , .		1
60	An advanced terahertz EIO operating with TM31 mode. , 2018, , .		1
61	Influence of SWS Size on Mode Purification in an Overmoded Ka-Band Cerenkov Oscillator. IEEE Access, 2020, 8, 32080-32087.	4.2	1
62	Unexpected electric breakdown effects in a foilless diode. , 2015, , .		0
63	Influence of voltage rise time on phase locking by priming effect in weakly resonant relativistic backward wave oscillators. Physics of Plasmas, 2017, 24, 053101.	1.9	0
64	Origination of oscillation startup in RBWO from radiation of electrons. , 2017, , .		0
65	Two-surface multipactor in a coaxial transmission line. , 2017, , .		0
66	Optimizing and experimental investigation of a Ka-band relativistic backward wave oscillator operating at TM<inf>02</inf>mode. , 2018, , .		0
67	Plasma effects of the directional coupler for high-power microwave measurements. Physics of Plasmas, 2018, 25, 072122.	1.9	0
68	Advance of Theoretical Research on Relativistic Backward Wave Oscillator Operating in Higher Modes. , 2019, , .		0