Yu-Wei Fan

List of Publications by Year
in descending order

58 papers	1,070 citations	394421 19 h-index	434195 31 g-index
58 all docs	58 docs citations	58 times ranked	269 citing authors

#	Article	IF	Citations
1	An L-band coaxial relativistic backward wave oscillator with mechanical frequency tunability. Applied Physics Letters, 2010, 97, .	3.3	73
2	Research progresses on Cherenkov and transit-time high-power microwave sources at NUDT. Matter and Radiation at Extremes, 2016, 1, 163-178.	3.9	65
3	Recent progress of the improved magnetically insulated transmission line oscillator. Review of Scientific Instruments, 2008, 79, 034703.	1.3	51
4	Analysis and improvement of an X-band magnetically insulated transmission line oscillator. Journal of Applied Physics, 2008, 103, .	2.5	51
5	A double-band high-power microwave source. Journal of Applied Physics, 2007, 102, .	2.5	48
6	Experimental Investigation of an Improved MILO. IEEE Transactions on Plasma Science, 2007, 35, 1075-1080.	1.3	48
7	Repetition rate operation of an improved magnetically insulated transmission line oscillator. Physics of Plasmas, 2008, 15, 083102.	1.9	47
8	Simulation Investigation of an Improved MILO. IEEE Transactions on Plasma Science, 2007, 35, 379-383.	1.3	46
9	Progress in narrowband high-power microwave sources. Physics of Plasmas, 2020, 27, .	1.9	46
10	Investigation of a 1.2-GHz Magnetically Insulated Transmission Line Oscillator. IEEE Transactions on Plasma Science, 2011, 39, 540-544.	1.3	37
11	Experimental investigation of a Ka band high power millimeter wave generator operated at low guiding magnetic field. Physics of Plasmas, 2011, 18, .	1.9	34
12	Design and experiment of a cross-shaped mode converter for high-power microwave applications. Review of Scientific Instruments, 2013, 84, 124703.	1.3	34
13	A Novel Dual-Frequency Magnetically Insulated Transmission Line Oscillator. IEEE Transactions on Plasma Science, 2009, 37, 2041-2047.	1.3	29
14	Experimental Demonstration of a Tunable Load-Limited Magnetically Insulated Transmission Line Oscillator. IEEE Transactions on Electron Devices, 2016, 63, 1307-1311.	3.0	26
15	Experimental demonstration of a compact high efficient relativistic magnetron with directly axial radiation. Physics of Plasmas, 2012, 19, .	1.9	23
16	A long-pulse repetitive operation magnetically insulated transmission line oscillator. Review of Scientific Instruments, 2014, 85, 053512.	1.3	23
17	Complex magnetically insulated transmission line oscillator. Physics of Plasmas, 2008, 15, 083108.	1.9	22
18	A tunable magnetically insulated transmission line oscillator. Chinese Physics B, 2015, 24, 035203.	1.4	22

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19	A high-efficiency repetitively pulsed magnetically insulated transmission line oscillator. Vacuum, 2016, 128, 39-44.	3.5	22
20	Theoretical investigation of the fundamental mode frequency of A6 magnetron. Journal of Applied Physics, 2009, 105, 083310.	2.5	20
21	A metal-dielectric cathode. Journal of Applied Physics, 2008, 104, 023304.	2.5	19
22	Time-and-space resolved comparison of plasma expansion velocities in high-power diodes with velvet cathodes. Journal of Applied Physics, 2013, 113, .	2.5	19
23	A dielectric-filled magnetically insulated transmission line oscillator. Applied Physics Letters, 2015, 106, 093501.	3.3	19
24	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
25	Time evolution of the two-dimensional expansion velocity distributions of the cathode plasma in pulsed high-power diodes. Laser and Particle Beams, 2013, 31, 129-134.	1.0	17
26	Compact intense electron-beam accelerators based on high energy density liquid pulse forming lines. Matter and Radiation at Extremes, 2018, 3, 278-292.	3.9	16
27	Theoretical investigation of the fundamental mode frequency of the magnetically insulated transmission line oscillator. Physics of Plasmas, 2008, 15, .	1.9	15
28	An improved X-band magnetically insulated transmission line oscillator. Physics of Plasmas, 2009, 16, .	1.9	15
29	Preliminary experimental study of a carbon fiber array cathode. Journal of Applied Physics, 2016, 120, .	2.5	14
30	Characteristics of a velvet cathode under high repetition rate pulse operation. Physics of Plasmas, 2009, 16, 103106.	1.9	12
31	A high-efficiency tunable TEM-TE11 mode converter for high-power microwave applications. AIP Advances, 2017, 7, .	1.3	12
32	Tunable circularly-polarized turnstile-junction mode converter for high-power microwave applications. Chinese Physics B, 2018, 27, 068401.	1.4	11
33	Time-Resolved Plasma Characteristics in a Short-Pulse High-Power Diode With a Dielectric Fiber (Velvet) Cathode. IEEE Transactions on Plasma Science, 2012, 40, 1696-1700.	1.3	9
34	A High-Efficiency Magnetically Insulated Transmission Line Oscillator With Ridged Disk-Loaded Vanes. IEEE Transactions on Plasma Science, 2019, 47, 3974-3977.	1.3	9
35	A high-efficiency relativistic magnetron with a novel all-cavity extraction structure. AIP Advances, 2020, 10, .	1.3	9
36	Preliminary investigation of an improved metal-dielectric cathode for magnetically insulated transmission line oscillator. Review of Scientific Instruments, 2015, 86, 024705.	1.3	8

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37	A high-efficiency relativistic magnetron with the filled dielectric. Physics of Plasmas, 2016, 23, .	1.9	8
38	Design of a dual-band radiation system for a complex magnetically insulated line oscillator. AIP Advances, 2018, 8, 055212.	1.3	8
39	An <inline-formula> <tex-math notation="LaTeX">L </tex-math> </inline-formula>-Band Relativistic Magnetron With Cathode Priming. IEEE Transactions on Plasma Science, 2019, 47, 204-208.	1.3	6
40	Experimental Demonstration of a Ridged Magnetically Insulated Transmission Line Oscillator. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1698-1702.	4.6	6
41	Simulational Investigation of a High-Efficiency X-Band Magnetically Insulated Line Oscillator. Plasma Science and Technology, 2015, 17, 893-896.	1.5	5
42	Theoretical investigation of the dielectric-filled relativistic magnetron. Physics of Plasmas, 2016, 23, .	1.9	5
43	Performance testing of a carbon fiber array cathode in a hard-tube MILO. Journal of Applied Physics, 2017, 122, .	2.5	5
44	A vacuum-sealed, gigawatt-class, repetitively pulsed high-power microwave source. Journal of Applied Physics, 2017, 121, .	2.5	5
45	A High-Efficiency Ridged Magnetically Insulated Transmission Line Oscillator. IEEE Transactions on Electron Devices, 2020, 67, 4442-4446.	3.0	5
46	Design and Simulation of a Novel High-Efficiency Magnetically Insulated Transmission Line Oscillator. IEEE Transactions on Plasma Science, 2020, 48, 884-887.	1.3	5
47	Use of shorted coaxial transmission line for high-power microwave measurement. Review of Scientific Instruments, 2009, 80, 024701.	1.3	4
48	Outgassing rate analysis of a velvet cathode and a carbon fiber cathode. Journal of Applied Physics, 2017, 122, .	2.5	4
49	An improved high-efficiency relativistic magnetron with a novel cathode endcap. AIP Advances, 2021, 11, .	1.3	4
50	A low-outgassing-rate carbon fiber array cathode. Chinese Physics B, 2018, 27, 028401.	1.4	3
51	Experimental Generation of 1.1-kA Gyrating Electron Beam Current From an Explosive Emission Cathode Magnetron Injection Gun. IEEE Transactions on Electron Devices, 2021, 68, 4664-4668.	3.0	3
52	Influence of voltage rise time on operation frequency in magnetically insulated transmission line oscillator. Review of Scientific Instruments, 2019, 90, 044704.	1.3	2
53	Improvement of vacuum maintenance capability and output pulse limit in a hard-tube MILO with a carbon fiber array cathode. Vacuum, 2020, 181, 109723.	3.5	2
54	A compact dual-band radiation system. Chinese Physics B, 2020, 29, 118402.	1.4	2

#	Article	IF	Citations
55	A tunable magnetically insulated transmission line oscillator. , 2015, , .		0
56	Simulation investigation of a high-efficiency X-band magnetically insulated line oscillator. , 2015, , .		0
57	Performance improvement of a magnetically insulated transmission line oscillator with a carbon fiber array cathode. Review of Scientific Instruments, 2019, 90, 044703.	1.3	0
58	DesignÂof a tunable turnstile mode converter for high-power microwave applications. Review of Scientific Instruments, 2021, 92, 104708.	1.3	0