

Yong Yin

List of Publications by Year in descending order

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64
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times ranked

224
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation and Experiments of a W -Band Extended Interaction Oscillator Based on a Pseudospark-Sourced Electron Beam. IEEE Transactions on Electron Devices, 2016, 63, 512-516.	3.0	72
2	Design and Analysis of a High-Order Mode Ladder-Type RF Circuit for Stable Operation in a W -Band Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2019, 66, 729-735.	3.0	35
3	An X-Band Dual-Frequency Coaxial Relativistic Backward-Wave Oscillator. IEEE Transactions on Plasma Science, 2012, 40, 3552-3559.	1.3	27
4	W -band low-loss bandpass filter using rectangular resonant cavities. IET Microwaves, Antennas and Propagation, 2014, 8, 1440-1444.	1.4	22
5	Circuit Design of a Compact 5-kV W -Band Extended Interaction Klystron. IEEE Transactions on Electron Devices, 2018, 65, 1179-1184.	3.0	22
6	High-Efficiency Phase-Locking of Millimeter-Wave Magnetron for High-Power Array Applications. IEEE Electron Device Letters, 2021, 42, 1658-1661.	3.9	21
7	Analysis of Dual-Frequency Radiation From a C -Band Extended Interaction Oscillator With Double Sheet Beam. IEEE Transactions on Electron Devices, 2019, 66, 3184-3189.	3.0	18
8	Study of a Dual-Mode W -Band Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2018, 65, 2620-2625.	3.0	17
9	Tractable Resonant Circuit With Two Nonuniform Beams for a High-Power 0.22-THz Extended Interaction Oscillator. IEEE Electron Device Letters, 2021, 42, 931-934.	3.9	16
10	Start current study of a THz sheet beam extended interaction oscillator. Physics of Plasmas, 2018, 25, .	1.9	15
11	A High-Efficiency Dual-Cavity Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2020, 67, 335-340.	3.0	15
12	Preliminary Study of a Multiple-Beam Extended-Interaction Oscillator With Coaxial Structure. IEEE Transactions on Electron Devices, 2018, 65, 2108-2113.	3.0	12
13	Preliminary Circuit Analysis of a W -Band High-Power Extended Interaction Oscillator With Distributed Hollow Electron Beam. IEEE Transactions on Electron Devices, 2019, 66, 3190-3195.	3.0	12
14	Study of the relation between the surface loss and the field flatness in the EID. International Journal of Electronics, 2017, 104, 204-217.	1.4	11
15	Study of Electronic Switching Between Multiple Backward-Wave Modes in a W -Band Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2017, 64, 4686-4692.	3.0	10
16	THz radiation from a high-order mode sheet beam extended interaction oscillator with staggered grating. AIP Advances, 2019, 9, 085314.	1.3	10
17	Compact high-power millimetre wave sources driven by pseudospark-sourced electron beams. IET Microwaves, Antennas and Propagation, 2019, 13, 1794-1798.	1.4	9
18	External Coupled Millimeter Wave Magnetron With Simple Diffraction Output. IEEE Electron Device Letters, 2019, 40, 1305-1308.	3.9	8

#	ARTICLE	IF	CITATIONS
19	Design and Simulation of a Multi-Sheet Beam Terahertz Radiation Source Based on Carbon-Nanotube Cold Cathode. <i>Nanomaterials</i> , 2019, 9, 1768.	4.1	8
20	A Low-Voltage, Premodulation Terahertz Oscillator Based on a Carbon Nanotube Cold Cathode. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 1266-1269.	3.0	8
21	Development of a <i>Ka</i> -Band Circular TM ₀₁ to Rectangular TE ₁₀ Mode Converter. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 1254-1258.	3.0	8
22	A 0.35-THz Extended Interaction Oscillator Based on Overmoded and Bi-Periodic Structure. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 5814-5819.	3.0	8
23	Design of a G-Band Extended Interaction Klystron Based on a Three-Coupling-Hole Structure. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 1368-1373.	3.0	8
24	Power enhancement for millimeter-wave extended interaction radiation sources by using the TM ₃₁ -mode scheme. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	6
25	Three-dimensional electromagnetic characteristic of overmoded coupling pattern for the cut-off extended interaction field in THz sheet beam resonant system. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 135501.	2.8	6
26	Demonstration of the Electronic Cutoff Field in Millimeter-Wave Extended Interaction Oscillators. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 2473-2479.	3.0	6
27	Power Enhancement of Subterahertz Extended Interaction Oscillator Based on Overmoded Multigap Circuit and Linearly Distributed Two Electron Beams. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 792-797.	3.0	6
28	A High-Current-Density Terahertz Electron-Optical System Based on Carbon Nanotube Cold Cathode. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 5760-5765.	3.0	5
29	Study of a high order mode extended interaction oscillator at W-band. , 2018, , .		4
30	Design and Analysis of an Overmoded Circuit for Two-Beam Sub-THz Extended Interaction Oscillator. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 5807-5813.	3.0	4
31	Design and analysis of a W-band high power extended interaction oscillator with distributed hollow electron beam. , 2016, , .		3
32	Feasibility study of a THz sheet beam extended interaction oscillator. , 2018, , .		3
33	A High Order Mode sheet-beam Extended Interaction Oscillator at Ka-band. , 2019, , .		3
34	Development of a High-Beam-Transparency Gridded Electron Gun Based on a Carbon Nanotube Cold Cathode. <i>IEEE Electron Device Letters</i> , 2022, 43, 615-618.	3.9	3
35	Experimental Research of X-Band Dual-Frequency Coaxial Relativistic Backward Wave Oscillator. <i>IEEE Journal of the Electron Devices Society</i> , 2020, 8, 911-916.	2.1	2
36	Plasma simulation to analyze velocity distribution characteristics of pseudospark-sourced electron beam*. <i>Chinese Physics B</i> , 2020, 29, 105101.	1.4	2

#	ARTICLE	IF	CITATIONS
37	Design and analysis of a quasi-TM ₀₃ mode G-band extended interaction radiation source. AIP Advances, 2021, 11, 035327.	1.3	2
38	Clarifying Analytically Calculated Dispersion Relations of Finite-Length Overmoded Corrugated Cylindrical Azimuthally Symmetric Slow Wave Structures Using Numerical Simulations. IEEE Transactions on Electron Devices, 2021, 68, 2990-2995.	3.0	2
39	Research of the Oscillation Start-Up Time in an Extended Interaction Oscillator Driven by a Pseudospark-Sourced Sheet Electron Beam. Electronics (Switzerland), 2022, 11, 664.	3.1	2
40	Simplistic, Efficient, and Low-Cost Crack Detection of Dielectric Materials Based on Millimeter-Wave Interference. Electronics (Switzerland), 2022, 11, 583.	3.1	2
41	THz Coherent Vavilov-Cherenkov Radiation in a Special Three-Mirror Cavity. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 28, 797-809.	0.6	1
42	Preliminary design of a THz EIO based on the pseudospark-sourced sheet electron beam. , 2017, , .		1
43	Design and analysis of a multiple-beam extended interaction oscillator with coaxial structure. , 2017, , .		1
44	Measurement of axial field distribution in a W-band extended interaction resonant cavity based on perturbation technique. AIP Advances, 2020, 10, 095022.	1.3	1
45	Analysis of the Resonator Part of a Ka-Band Multiple-Beam Extended-Interaction Oscillator through Electric Field Uniformity. Electronics (Switzerland), 2021, 10, 276.	3.1	1
46	Simulation Design of TWT Based on CNT Cold Cathode. , 2020, , .		1
47	Clarifying duplicated electromagnetic characteristics for 220-GHz two-beam extended interaction oscillator. AIP Advances, 2022, 12, .	1.3	1
48	Surface plasmon radiation source under the electron bunch excitation. , 2021, , .		1
49	Quasi-optical resonant system for extended interaction devices. , 2012, , .		0
50	Design of a high efficiency W-band extended interaction oscillator. , 2013, , .		0
51	Analysis of mode competition in output cavity for W-band sheet beam EIK. , 2015, , .		0
52	Circuit design of a three-cavity W-band extended interaction klystron. , 2016, , .		0
53	Study of the oscillation startup time in a G-band EIO based on a pseudospark-sourced electron beam. , 2017, , .		0
54	Millimeter wave extended interaction oscillator based on pseudospark-sourced electron beam. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
55	Improvement of the Beam-Wave Interaction Efficiency Based on the Coupling-Slot Configuration in an Extended Interaction Oscillator. Journal of the Korean Physical Society, 2018, 73, 1362-1369.	0.7	0
56	Preliminary study of helix arranged coupling slots in coupled cavity structure. , 2018, , .		0
57	Circuit Design and Analysis of an External Coupled Magnetron at Ka Band for High Power Applications. , 2019, , .		0
58	Third harmonic working based on the Smith-Purcell radiation in a closed structure. AIP Advances, 2020, 10, 065115.	1.3	0
59	Simulation study of D-band extended interaction klystron amplifier. , 2021, , .		0
60	Simulation Study of a High Order Mode Multi-Sheet Beam R-Band Extended Interaction Oscillator Based on Carbon-Nanotube Cold Cathode. , 2021, , .		0
61	Extended Interaction Circuit Based on two Beams with Arbitrary Uniformity for High Power Sub-Terahertz Applications. , 2021, , .		0
62	Characteristics of Electric Field Distribution in a G-band Overmoded Extended Interaction Oscillator. , 2020, , .		0
63	EIO based on Smith-Purcell radiation design operating in high-order mode. , 2021, , .		0
64	Design of high-power arbitrary multi-way radial power dividers using periodic matching structure. AIP Advances, 2022, 12, 065122.	1.3	0