

Hailong Li

List of Publications by Year in descending order

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times ranked

243
citing authors

#	ARTICLE	IF	CITATIONS
1	Power Enhancement of Subterahertz Extended Interaction Oscillator Based on Overmoded Multigap Circuit and Linearly Distributed Two Electron Beams. IEEE Transactions on Electron Devices, 2022, 69, 792-797.	3.0	6
2	Clarifying duplicated electromagnetic characteristics for 220-GHz two-beam extended interaction oscillator. AIP Advances, 2022, 12, .	1.3	1
3	Design of a G-Band Extended Interaction Klystron Based on a Three-Coupling-Hole Structure. IEEE Transactions on Electron Devices, 2022, 69, 1368-1373.	3.0	8
4	Simplistic, Efficient, and Low-Cost Crack Detection of Dielectric Materials Based on Millimeter-Wave Interference. Electronics (Switzerland), 2022, 11, 583.	3.1	2
5	Development of a High-Beam-Transparency Gridded Electron Gun Based on a Carbon Nanotube Cold Cathode. IEEE Electron Device Letters, 2022, 43, 615-618.	3.9	3
6	Design of high-power arbitrary multi-way radial power dividers using periodic matching structure. AIP Advances, 2022, 12, 065122.	1.3	0
7	A 0.35-THz Extended Interaction Oscillator Based on Overmoded and Bi-Periodic Structure. IEEE Transactions on Electron Devices, 2021, 68, 5814-5819.	3.0	8
8	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
9	Design and Analysis of an Overmoded Circuit for Two-Beam Sub-THz Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2021, 68, 5807-5813.	3.0	4
10	High-Efficiency Phase-Locking of Millimeter-Wave Magnetron for High-Power Array Applications. IEEE Electron Device Letters, 2021, 42, 1658-1661.	3.9	21
11	Detection of chiral enantiomers via an optical fibre sensor. Journal of Modern Optics, 2021, 68, 134-142.	1.3	0
12	Design and analysis of a quasi-TM03 mode G-band extended interaction radiation source. AIP Advances, 2021, 11, 035327.	1.3	2
13	Chirality parameter sensing based on surface plasmon resonance D-type photonic crystal fiber sensors. Applied Optics, 2021, 60, 3314.	1.8	4
14	Demonstration of the Electronic Cutoff Field in Millimeter-Wave Extended Interaction Oscillators. IEEE Transactions on Electron Devices, 2021, 68, 2473-2479.	3.0	6
15	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
16	Aspect sensitivity of double-layer polar mesosphere summer echoes at VHF based on an experimental case. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 223, 105741.	1.6	0
17	Simulation study of D-band extended interaction klystron amplifier. , 2021, , .		0
18	Simulation Study of a High Order Mode Multi-Sheet Beam R-Band Extended Interaction Oscillator Based on Carbon-Nanotube Cold Cathode. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	Extended Interaction Circuit Based on two Beams with Arbitrary Uniformity for High Power Sub-Terahertz Applications. , 2021, , .		0
20	EIO based on Smith-Purcell radiation design operating in high-order mode. , 2021, , .		0
21	Surface plasmon radiation source under the electron bunch excitation. , 2021, , .		1
22	Reaction of PMSE and PMWE to HF heating: comparison during a heater cycling. , 2021, , .		0
23	The role of charged dust particles on conductivity in polar mesosphere summer echoes regions. , 2021, , .		0
24	Three-dimensional electromagnetic characteristic of overmoded coupling pattern for the cut-off extended interaction field in THz sheet beam resonant system. Journal Physics D: Applied Physics, 2020, 53, 135501.	2.8	6
25	A High-Efficiency Dual-Cavity Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2020, 67, 335-340.	3.0	15
26	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
27	Experimental Research of X-Band Dual-Frequency Coaxial Relativistic Backward Wave Oscillator. IEEE Journal of the Electron Devices Society, 2020, 8, 911-916.	2.1	2
28	A High-Current-Density Terahertz Electron-Optical System Based on Carbon Nanotube Cold Cathode. IEEE Transactions on Electron Devices, 2020, 67, 5760-5765.	3.0	5
29	A Low-Voltage, Premodulation Terahertz Oscillator Based on a Carbon Nanotube Cold Cathode. IEEE Transactions on Electron Devices, 2020, 67, 1266-1269.	3.0	8
30	Development of a Ka -Band Circular TM_{01} to Rectangular TE_{10} Mode Converter. IEEE Transactions on Electron Devices, 2020, 67, 1254-1258.	3.0	8
31	Third harmonic working based on the Smith-Purcell radiation in a closed structure. AIP Advances, 2020, 10, 065115.	1.3	0
32	The Radiation of Two Dimension Dipole Oscillations in Subwavelength Hole Array. , 2020, , .		0
33	Characteristics of Electric Field Distribution in a G-band Overmoded Extended Interaction Oscillator. , 2020, , .		0
34	Simulation Design of TWT Based on CNT Cold Cathode. , 2020, , .		1
35	Power enhancement for millimeter-wave extended interaction radiation sources by using the TM_{31} -mode scheme. Physics of Plasmas, 2019, 26, .	1.9	6
36	A High Order Mode sheet-beam Extended Interaction Oscillator at Ka-band. , 2019, , .		3

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37	Tuning Characteristics Analysis of a Ka-band Coaxial Magnetron. , 2019, , .		0
38	Circuit Design and Analysis of an External Coupled Magnetron at Ka Band for High Power Applications. , 2019, , .		0
39	External Coupled Millimeter Wave Magnetron With Simple Diffraction Output. IEEE Electron Device Letters, 2019, 40, 1305-1308.	3.9	8
40	Theoretical Research on 300GHz Carbon Nanotube Cold Cathode Gyrotron. , 2019, , .		0
41	A Novel Phase-locking Structure Applied to Millimeter-wave Magnetrons. , 2019, , .		2
42	THz radiation from a high-order mode sheet beam extended interaction oscillator with staggered grating. AIP Advances, 2019, 9, 085314.	1.3	10
43	Analysis of Dual-Frequency Radiation From a $\{G\}$ -Band Extended Interaction Oscillator With Double Sheet Beam. IEEE Transactions on Electron Devices, 2019, 66, 3184-3189.	3.0	18
44	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
45	Design and Simulation of a Multi-Sheet Beam Terahertz Radiation Source Based on Carbon-Nanotube Cold Cathode. Nanomaterials, 2019, 9, 1768.	4.1	8
46	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
47	Probing a chiral drug using long period fiber gratings. Optics Express, 2019, 27, 31407.	3.4	3
48	Circuit Design of a Compact 5-kV $\{W\}$ -Band Extended Interaction Klystron. IEEE Transactions on Electron Devices, 2018, 65, 1179-1184.	3.0	22
49	Case study of ion line spectra during modulated PMSE condition. , 2018, , .		0
50	Role of high energy precipitating particles on PMSE echoes during the simultaneous observations carried out by EISCAT VHF and UHF radar. , 2018, , .		0
51	Preliminary analysis of the effects of magnetic declination on flux-tube integrated linear growth rate of generalized Rayleigh-Taylor instability. , 2018, , .		1
52	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
53	Sensing and Manipulation of Bianisotropic Biomolecules Using a Surface Plasmon Resonance Based Optical Fiber Sensor. Journal of Lightwave Technology, 2018, 36, 5927-5934.	4.6	9
54	Study of a Dual-Mode $\{W\}$ -Band Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2018, 65, 2620-2625.	3.0	17

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55	Theoretical study of extended interaction frequency-locked oscillator based on carbon nanotube cold cathodes. IET Microwaves, Antennas and Propagation, 2018, 12, 1771-1774.	1.4	9
56	Preliminary study of helix arranged coupling slots in coupled cavity structure. , 2018, , .		0
57	Study of a high order mode extended interaction oscillator at W-band. , 2018, , .		4
58	Feasibility study of a THz sheet beam extended interaction oscillator. , 2018, , .		3
59	Start current study of a THz sheet beam extended interaction oscillator. Physics of Plasmas, 2018, 25, .	1.9	15
60	Preliminary Study of a Multiple-Beam Extended-Interaction Oscillator With Coaxial Structure. IEEE Transactions on Electron Devices, 2018, 65, 2108-2113.	3.0	12
61	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
62	Theoretical research on a TWT based on magnetic injection CNT cold cathode electron gun. , 2017, , .		0
63	Simulation study on a gridded micro-focus X-ray electron gun based on carbon nanotube cathode. , 2017, , .		0
64	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
65	Preliminary Study on Active Modulation of Polar Mesosphere Summer Echoes with the Radio Propagation in Layered Space Dusty Plasma. Plasma Science and Technology, 2016, 18, 607-610.	1.5	15
66	Seasonal occurrence of polar mesosphere summer echo variations with different layers. , 2016, , .		0
67	Wave propagation and Lorentz force density in gain chiral structures. Optical Materials Express, 2016, 6, 388.	3.0	13
68	Power effect of polar summer mesosphere dusty plasma on space microwave energy transmission. , 2016, , .		0
69	Numerical simulation on electromagnetic properties of the solid rocket plume affected by the environmental pressure. , 2016, , .		0
70	Propagation Matrix Method Study on THz Waves Propagation in a Dusty Plasma Sheath. IEEE Transactions on Antennas and Propagation, 2016, 64, 286-290.	5.1	50
71	The distribution of electromagnetic waves and forces in a dispersive chiral cylinder. IEICE Electronics Express, 2016, 13, 20160974-20160974.	0.8	0
72	Radiation pressure of active dispersive chiral slabs. Optics Express, 2015, 23, 16546.	3.4	37

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73	Terahertz Wave Characteristic of Single Walled Carbon Nanotubes Using Propagation Matrix Method. Frequenz, 2015, 69, .	0.9	1
74	Mie Series for Electromagnetic Scattering of a Conducting Sphere Coated with Chiral Metamaterials. Frequenz, 2014, 68, .	0.9	1
75	Particle simulation of tri-frequency relativistic backward-wave oscillator with resonant reflector. , 2014, , .		1
76	Design of a high efficiency W-band extended interaction oscillator. , 2013, , .		0
77	Design of a high-efficiency dual-band coaxial relativistic backward wave oscillator with variable coupling impedance and phase velocity. Laser and Particle Beams, 2013, 31, 55-62.	1.0	8
78	Dual-band dual-beam relativistic backward wave oscillator with different inner and outer slow-wave structure periods. , 2011, , .		2