

Hailong Li

List of Publications by Year in descending order

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78
papers

475
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759233

12
h-index

794594

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85
all docs

85
docs citations

85
times ranked

243
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Radiation pressure of active dispersive chiral slabs. Optics Express, 2015, 23, 16546.	3.4	37
3	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
4	Circuit Design of a Compact 5-kV W -Band Extended Interaction Klystron. IEEE Transactions on Electron Devices, 2018, 65, 1179-1184.	3.0	22
5	High-Efficiency Phase-Locking of Millimeter-Wave Magnetron for High-Power Array Applications. IEEE Electron Device Letters, 2021, 42, 1658-1661.	3.9	21
6	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
7	Study of a Dual-Mode W -Band Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2018, 65, 2620-2625.	3.0	17
8	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
9	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
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	Wave propagation and Lorentz force density in gain chiral structures. Optical Materials Express, 2016, 6, 388.	3.0	13
13	Preliminary Study of a Multiple-Beam Extended-Interaction Oscillator With Coaxial Structure. IEEE Transactions on Electron Devices, 2018, 65, 2108-2113.	3.0	12
14	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
15	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
16	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
17	THz radiation from a high-order mode sheet beam extended interaction oscillator with staggered grating. AIP Advances, 2019, 9, 085314.	1.3	10
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	External Coupled Millimeter Wave Magnetron With Simple Diffraction Output. IEEE Electron Device Letters, 2019, 40, 1305-1308.	3.9	8
22	Design and Simulation of a Multi-Sheet Beam Terahertz Radiation Source Based on Carbon-Nanotube Cold Cathode. Nanomaterials, 2019, 9, 1768.	4.1	8
23	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
24	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
25	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
26	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
27	Power enhancement for millimeter-wave extended interaction radiation sources by using the TM_{31} -mode scheme. Physics of Plasmas, 2019, 26, .	1.9	6
28	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
29	Demonstration of the Electronic Cutoff Field in Millimeter-Wave Extended Interaction Oscillators. IEEE Transactions on Electron Devices, 2021, 68, 2473-2479.	3.0	6
30	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
31	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
32	Study of a high order mode extended interaction oscillator at W-band. , 2018, , .		4
33	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
34	Chirality parameter sensing based on surface plasmon resonance D-type photonic crystal fiber sensors. Applied Optics, 2021, 60, 3314.	1.8	4
35	Feasibility study of a THz sheet beam extended interaction oscillator. , 2018, , .		3
36	A High Order Mode sheet-beam Extended Interaction Oscillator at Ka-band. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
37	Probing a chiral drug using long period fiber gratings. Optics Express, 2019, 27, 31407.	3.4	3
38	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
39	Dual-band dual-beam relativistic backward wave oscillator with different inner and outer slow-wave structure periods. , 2011, , .		2
40	A Novel Phase-locking Structure Applied to Millimeter-wave Magnetrons. , 2019, , .		2
41	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
42	Design and analysis of a quasi-TM ₀₃ mode G-band extended interaction radiation source. AIP Advances, 2021, 11, 035327.	1.3	2
43	Simplistic, Efficient, and Low-Cost Crack Detection of Dielectric Materials Based on Millimeter-Wave Interference. Electronics (Switzerland), 2022, 11, 583.	3.1	2
44	Mie Series for Electromagnetic Scattering of a Conducting Sphere Coated with Chiral Metamaterials. Frequenz, 2014, 68, .	0.9	1
45	Particle simulation of tri-frequency relativistic backward-wave oscillator with resonant reflector. , 2014, , .		1
46	Terahertz Wave Characteristic of Single Walled Carbon Nanotubes Using Propagation Matrix Method. Frequenz, 2015, 69, .	0.9	1
47	Preliminary analysis of the effects of magnetic declination on flux-tube integrated linear growth rate of generalized Rayleigh-Taylor instability. , 2018, , .		1
48	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
49	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
50	Simulation Design of TWT Based on CNT Cold Cathode. , 2020, , .		1
51	Clarifying duplicated electromagnetic characteristics for 220-GHz two-beam extended interaction oscillator. AIP Advances, 2022, 12, .	1.3	1
52	Surface plasmon radiation source under the electron bunch excitation. , 2021, , .		1
53	Design of a high efficiency W-band extended interaction oscillator. , 2013, , .		0
54	Seasonal occurrence of polar mesosphere summer echo variations with different layers. , 2016, , .		0

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55	Power effect of polar summer mesosphere dusty plasma on space microwave energy transmission. , 2016, , .		0
56	Numerical simulation on electromagnetic properties of the solid rocket plume affected by the environmental pressure. , 2016, , .		0
57	Theoretical research on a TWT based on magnetic injection CNT cold cathode electron gun. , 2017, , .		0
58	Simulation study on a gridded micro-focus X-ray electron gun based on carbon nanotube cathode. , 2017, , .		0
59	Case study of ion line spectra during modulated PMSE condition. , 2018, , .		0
60	Role of high energy precipitating particles on PMSE echoes during the simultaneous observations carried out by EISCAT VHF and UHF radar. , 2018, , .		0
61	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
62	Preliminary study of helix arranged coupling slots in coupled cavity structure. , 2018, , .		0
63	Tuning Characteristics Analysis of a Ka-band Coaxial Magnetron. , 2019, , .		0
64	Circuit Design and Analysis of an External Coupled Magnetron at Ka Band for High Power Applications. , 2019, , .		0
65	Theoretical Research on 300GHz Carbon Nanotube Cold Cathode Gyrotron. , 2019, , .		0
66	Third harmonic working based on the Smithâ€™Purcell radiation in a closed structure. AIP Advances, 2020, 10, 065115.	1.3	0
67	Detection of chiral enantiomers via an optical fibre sensor. Journal of Modern Optics, 2021, 68, 134-142.	1.3	0
68	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
69	Simulation study of D-band extended interaction klystron amplifier. , 2021, , .		0
70	Simulation Study of a High Order Mode Multi-Sheet Beam R-Band Extended Interaction Oscillator Based on Carbon-Nanotube Cold Cathode. , 2021, , .		0
71	The distribution of electromagnetic waves and forces in a dispersive chiral cylinder. IEICE Electronics Express, 2016, 13, 20160974-20160974.	0.8	0
72	Extended Interaction Circuit Based on two Beams with Arbitrary Uniformity for High Power Sub-Terahertz Applications. , 2021, , .		0

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73	The Radiation of Two Dimension Dipole Oscillations in Subwavelength Hole Array. , 2020, , .		0
74	Characteristics of Electric Field Distribution in a G-band Overmoded Extended Interaction Oscillator. , 2020, , .		0
75	EIO based on Smith-Purcell radiation design operating in high-order mode. , 2021, , .		0
76	Reaction of PMSE and PMWE to HF heating: comparison during a heater cycling. , 2021, , .		0
77	The role of charged dust particles on conductivity in polar mesosphere summer echoes regions. , 2021, , .		0
78	Design of high-power arbitrary multi-way radial power dividers using periodic matching structure. AIP Advances, 2022, 12, 065122.	1.3	0