

Huarong Gong

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Quasi-Static/Dynamic Contact Mechanical Properties of Mo Surface-Modified TC4. Coatings, 2022, 12, 123.	2.6	1
2	A Ka-Band Angular Log-Periodic Meander-Line SWS Supported by Diamond Rods. IEEE Transactions on Electron Devices, 2022, 69, 1374-1379.	3.0	3
3	Improved Gain Equalization Technique for Q -Band Folded-Waveguide TWT for Potential Application in High-Data-Rate Communication. IEEE Transactions on Electron Devices, 2022, 69, 2631-2636.	3.0	1
4	A 0.14 THz Angular Radial Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2022, 69, 1468-1473.	3.0	3
5	Q-Band Helix Traveling-Wave Tube With High Efficiency by Helix Pitch and Diameter Profiling for Potential Application in the Next Generation Wireless Communication System. IEEE Transactions on Plasma Science, 2022, 50, 1790-1795.	1.3	4
6	Experimental Investigation of a Shape-Optimized Staggered Double-Vane Slow-Wave Structure for Terahertz Traveling-Wave Tubes. IEEE Transactions on Electron Devices, 2022, 69, 4632-4637.	3.0	5
7	Using Phase Jumping Method to Enhance the Beam-Wave Interaction Efficiency in Terahertz Folded-Waveguide Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2022, 69, 4586-4591.	3.0	3
8	Simulation Design of G -Band FWG TWT Amplifier Enhanced by H -Mode Extended Interaction. IEEE Transactions on Electron Devices, 2022, 69, 4604-4610.	3.0	1
9	Novel Dual Beam Cascaded Schemes for 346 GHz Harmonic-Enhanced TWTs. Electronics (Switzerland), 2021, 10, 195.	3.1	1
10	Investigation of Sine Groove Waveguide Slow Wave Structure for Terahertz Traveling Wave Tube. IEEE Transactions on Electron Devices, 2021, 68, 804-810.	3.0	3
11	A Semi-Analytic Numerical Algorithm of Diamond Pillbox Windows for Terahertz Vacuum Electron Device Applications. IEEE Electron Device Letters, 2021, 42, 252-255.	3.9	2
12	Electron-optical system for dual radial sheet beams for Ka-band cascaded angular log-periodic strip-line traveling wave tube. AIP Advances, 2021, 11, 035325.	1.3	0
13	Improved Model for Beam-Wave Interaction With Ohmic Losses and Reflections of Sheet Beam Traveling Wave Tubes. IEEE Transactions on Electron Devices, 2021, 68, 2977-2983.	3.0	3
14	Study of an Attenuator Supporting Meander-Line Slow Wave Structure for Ka-Band TWT. Electronics (Switzerland), 2021, 10, 2372.	3.1	5
15	Dielectric-Supported Staggered Dual Meander-Line Slow Wave Structure for an E -Band TWT. IEEE Transactions on Electron Devices, 2021, 68, 369-375.	3.0	4
16	A Simulation Method Based on Nonlinear Theory for Noise Analysis in Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2021, 68, 5858-5863.	3.0	2
17	Experimental Investigation of an Electron-Optical System for Terahertz Traveling-Wave Tubes. IEEE Transactions on Electron Devices, 2021, 68, 6498-6504.	3.0	17
18	Helix Slow-wave Structure with Changed Pitches for a Q-band Traveling-wave Tube. , 2021, , .		0

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19	S-band Two-gap Metamaterial Extended Interaction Oscillator. , 2021, , .		0
20	Staggered Double-vane Slow-wave Structure with Attenuators for a 220 GHz Sheet Beam Traveling-wave Tube. , 2021, , .		2
21	Test of G-band Folded Waveguide Traveling-wave Tube. , 2021, , .		1
22	Design of a High Compression Ratio Electron Gun for Terahertz TWT Applications. , 2021, , .		0
23	Investigation on a 0.34THz Dual-Open-Cavity Extended Interaction Klystron. , 2021, , .		1
24	A W-Band Radial Klystron Amplifier. , 2021, , .		0
25	Novel Double Tunnel Staggered Grating Slow Wave Structure for 0.2 THz Traveling Wave Tube. IEEE Electron Device Letters, 2020, 41, 284-287.	3.9	21
26	A Novel Scheme for Gain and Power Enhancement of THz TWTs by Extended Interaction Cavities. IEEE Transactions on Electron Devices, 2020, 67, 667-672.	3.0	12
27	Tower-Like ZnO Nanorod Bundles Grown on Freestanding Diamond Wafers for Electron Field Emission Improvement. Journal of Materials Engineering and Performance, 2020, 29, 6078-6084.	2.5	1
28	Design and Cold Test of Dual Beam Azimuthal Supported Angular Log-Periodic Strip-Line Slow Wave Structure. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 785-795.	2.2	11
29	Investigation on a Ka Band Diamond-Supported Meander-Line SWS. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1460-1468.	2.2	9
30	Novel S-Band Metamaterial Extended Interaction Klystron. IEEE Electron Device Letters, 2020, 41, 1580-1583.	3.9	27
31	Ka-band dual sheet beam traveling wave tube using supported planar ring-bar slow wave structure. Journal of Electromagnetic Waves and Applications, 2020, 34, 2236-2250.	1.6	7
32	0.2-THz Traveling Wave Tube Based on the Sheet Beam and a Novel Staggered Double Corrugated Waveguide. IEEE Transactions on Plasma Science, 2020, 48, 3229-3237.	1.3	6
33	Investigation of Double Tunnel Sine Waveguide Slow-Wave Structure for Terahertz Dual-Beam TWT. IEEE Transactions on Electron Devices, 2020, 67, 2176-2181.	3.0	16
34	Theory and Experiment of High-Gain Modified Angular Log-Periodic Folded Waveguide Slow Wave Structure. IEEE Electron Device Letters, 2020, 41, 1237-1240.	3.9	9
35	Metamaterial-based Vacuum Electronic Devices with Miniaturization. , 2020, , .		0
36	An Active Transmission Matrix-Based Nonlinear Analysis for Folded Waveguide TWT. IEEE Transactions on Electron Devices, 2020, 67, 1205-1210.	3.0	3

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37	Investigation of angular log-periodic folded groove waveguide slow-wave structure for low voltage Ka-band TWT. AIP Advances, 2020, 10, .	1.3	4
38	Study on an X-Band Sheet Beam Meander-Line SWS. IEEE Transactions on Plasma Science, 2020, 48, 4149-4154.	1.3	5
39	A Novel Tunable PCM Focusing System for a 220 GHz Sheet Beam Electron Gun. , 2020, , .		5
40	Miniaturized Metamaterial-based Sheet Beam Radiation Sources. , 2020, , .		0
41	A Multi-Beam Terahertz Coaxial Cavity Reflex Klystron. , 2020, , .		1
42	Broad bandwidth Suspending Conformal Angular Meander Line Slow Wave Structure. , 2020, , .		0
43	A Three-stage Depressed Collector for 220 GHz Sheet Beam Traveling-wave Tubes. , 2020, , .		5
44	Compact and High-efficiency Metamaterial Extended Interaction Oscillator. , 2020, , .		1
45	Design of Ka-Band High-Power TWT. , 2020, , .		1
46	Design of G-band Folded Waveguide Traveling-wave Tube. , 2020, , .		0
47	A Low-Voltage Backward Wave Oscillator Operating at THz Band. , 2020, , .		0
48	A Thermal Analysis Method for Dielectric Supported Ring-bar Meander Line Slow Wave Structure. , 2020, , .		2
49	Simulation of Non-Periodic Folded Waveguide Slow Wave Structure. , 2020, , .		0
50	Recent Advances in Intense Microwave Generation Using Metamaterials. , 2020, , .		0
51	The Study of Very Low Voltage Planar Slow Wave Structure For Compact TWT. , 2020, , .		0
52	Study of 220 GHz Dual-Beam Overmoded Photonic Crystal-Loaded Folded Waveguide TWT. IEEE Transactions on Plasma Science, 2019, 47, 2971-2978.	1.3	22
53	Study on Broadband Ridge-Loaded Symmetrical Conformal Microstrip Meander Line Traveling Wave Tube at Ka- Band. , 2019, , .		0
54	Stacked dual beam electron optical system for THz integrated wideband traveling wave tube. Physics of Plasmas, 2019, 26, .	1.9	19

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55	Study of low voltage angular log-periodic slow wave structure for 340 GHz TWT. , 2019, , .		3
56	Novel Helical Groove Rectangular Waveguide Slow Wave Structure for 0.2 THz Traveling Wave Tube. IEEE Electron Device Letters, 2019, 40, 1526-1529.	3.9	9
57	Theoretical Investigation into an Ultra-Wideband Helix Traveling-Wave Tube. , 2019, , .		0
58	Microfabrication of A Conformal Microstrip Angular Log-periodic Meander Line TWT. , 2019, , .		4
59	Fabrication and Test of a W-band Three-Slot-Staggered-Ladder Coupled-Cavity TWT Circuit. , 2019, , .		1
60	Transmission Characteristics of 220 GHz T-shape Staggered Double-Vane Slow Wave Structure. , 2019, , .		3
61	High power folded waveguide traveling wave tube based on variable-width technology. Physics of Plasmas, 2019, 26, .	1.9	8
62	Design and Experiment of 4ÂMMW Ka Band Sheet Electron Beam TWT. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 637-647.	2.2	1
63	Some Advances in Theory and Experiment of High-Frequency Vacuum Electron Devices in China. IEEE Transactions on Plasma Science, 2019, 47, 1971-1990.	1.3	24
64	Investigation on 0.1 THz Array Beams Folded Waveguide Traveling Wave Tube. , 2019, , .		0
65	Double-Anode Sheet-Beam Electron Gun with a Circular Cathode for 220 GHz TWT. , 2019, , .		3
66	Two-dimensional particle simulation and analysis of ion noise in TWT. , 2019, , .		0
67	1.0 THz Backward-Wave Oscillator Based on Novel Helical Groove Rectangular Waveguide. , 2019, , .		0
68	Experimental Advances in 220 GHz Sheet-Beam Traveling-Wave Tubes. , 2019, , .		8
69	Design of Electron Optical System for 0.22THz Folded Waveguide TWT. , 2019, , .		0
70	The Interaction Between Two-dimensional Electron Gas and Terahertz Plasma Wave in HEMT-like Structure. , 2019, , .		2
71	Analysis of Folded Waveguide TWT with Non-Central Double Beams. , 2019, , .		0
72	3-D Fast Nonlinear Simulation for Beamâ€™Wave Interaction of Sheet Beam Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2019, 66, 1504-1511.	3.0	6

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73	Third-Harmonic Traveling-Wave Tube Multiplier-Amplifier. IEEE Transactions on Electron Devices, 2018, 65, 2189-2194.	3.0	10
74	220 GHz Dual Beam Photonic Crystal Folded Waveguide TWT. , 2018, , .		0
75	Investigation of Staggered Double Grating Slow Wave Structure Loaded by Photonic Crystals. , 2018, , .		3
76	Sheet Beam Electron Gun with High Current for 220 GHz TWT. , 2018, , .		9
77	Experiment on Ka-band amplifiers degraded and damaged by electromagnetic waves. Journal of Engineering, 2018, 2018, 704-708.	1.1	0
78	Study of a miniaturized dual-beam TWT with planar dielectric-rods-support uniform metallic meander line. Physics of Plasmas, 2018, 25, .	1.9	13
79	Simulation and cold test of 220GHz staggered double vane slow wave structure. , 2018, , .		3
80	Study for 850 GHz sheet beam staggered double-vane traveling wave tube considering the metal loss. , 2018, , .		3
81	Uniform permanent magnetic field with hemi-ladder structure for sheet electron beam focusing. , 2018, , .		1
82	Optimal design of third-order microstrip bandpass filters by direct synthesis technique (DST). International Journal of Circuit Theory and Applications, 2018, 46, 1827-1837.	2.0	2
83	Study on W-Band 2.8kW Sheet-Beam Three-Slot Staggered-Ladder Coupled-Cavity Traveling-Wave Tube. Recent Advances in Electrical and Electronic Engineering, 2018, 11, 203-210.	0.3	0
84	Development of a 140-GHz folded-waveguide traveling-wave tube in a relatively larger circular electron beam tunnel. Journal of Electromagnetic Waves and Applications, 2017, 31, 1914-1923.	1.6	11
85	Study on Radial Sheet Beam Electron Optical System for Miniature Low-Voltage Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2017, 64, 3405-3412.	3.0	12
86	Study on Ka-band sheet-beam, three-slot-staggered-ladder coupled-cavity traveling-wave tube in a small tunable periodic cusped magnet. Journal of Electromagnetic Waves and Applications, 2017, 31, 1924-1937.	1.6	3
87	Design of a two-stage Ka-band relativistic sheet electron beam traveling wave tube. , 2017, , .		1
88	Experimental investigation of the high harmonic traveling-wave tube. , 2017, , .		1
89	Study of 220GHz relativistic BWO with phase velocity taper. , 2017, , .		0
90	A 94-96GHz 100 watts folded waveguide TWT. , 2017, , .		2

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91	A High-Power Single Rectangular Grating Sheet Electron Beam Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2016, 63, 3262-3269.	3.0	9
92	Simulation of an EEHG terahertz traveling wave tube. , 2016, , .		0
93	Design of a two-stage, two-sheet-beam 220-GHz, 70-kW planar relativistic traveling-wave tube. Journal of Electromagnetic Waves and Applications, 2016, 30, 1858-1868.	1.6	3
94	The research of 140GHz high harmonic traveling wave tube. , 2016, , .		1
95	Large signal beam-wave interaction analysis of folded waveguide traveling wave tube. , 2016, , .		4
96	Study of the radial tunable PCM focusing system. , 2016, , .		1
97	Study on Ka-Band Sheet Beam Traveling Wave Tube Focused by Closed PCM. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 561-571.	2.2	2
98	A V-band folded waveguide TWT. , 2015, , .		2
99	Study for 140 GHz folded waveguide traveling wave tube with big electron tunnel. , 2015, , .		1
100	Design of the radial divergent sheet beam electron optical system with radial quasi-uniform magnetic field. , 2015, , .		3
101	Ka-band traveling wave tube driving by relativistic sheet electron beam. , 2015, , .		2
102	Research on 0.22THz folded-waveguide traveling-wave tube with a proper phase-velocity taper. , 2015, , .		0
103	THz wakefield in dielectric PBG structure driven by electron bunches. , 2015, , .		0
104	Design of the radial divergent sheet beam electron optical system with cylindrical emission surface. , 2015, , .		2
105	Theoretical and Experimental Research on a Novel Small Tunable PCM System in Staggered Double Vane TWT. IEEE Transactions on Electron Devices, 2015, 62, 4258-4264.	3.0	30
106	Dispersion Equations of a Rectangular Tape Helix Slow-Wave Structure. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1445-1456.	4.6	16
107	Study on Ka-band relativistic sheet electron beam Orotron. , 2015, , .		0
108	Magnetron resonance cavity for miniaturized atomic clocks. , 2015, , .		0

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109	A high efficiency Q-band folded waveguide Traveling-Wave Tube. , 2014, , .		7
110	Study on Wideband Sheet Beam Traveling Wave Tube Based on Staggered Double Vane Slow Wave Structure. IEEE Transactions on Plasma Science, 2014, 42, 3996-4003.	1.3	58
111	A 1-kW 32â€“34-GHz Folded Waveguide Traveling Wave Tube. IEEE Transactions on Plasma Science, 2014, 42, 8-12.	1.3	8
112	Nonrelativistic electron beam control and its application in terahertz radiation generation. , 2013, , .		1
113	Study on high power Ka-band rectangular double-grating sheet beam device. , 2013, , .		2
114	High-Power Tunable Terahertz Radiation by High-Order Harmonic Generation. IEEE Transactions on Electron Devices, 2013, 60, 482-486.	3.0	21
115	Generation of high-power tunable terahertz-radiation by nonrelativistic beam-echo harmonic effect. Physics of Plasmas, 2013, 20, 013303.	1.9	5
116	Sine waveguide with a grating reflector for 1-THz backward wave oscillator. , 2012, , .		1
117	Propagation properties of an elliptical anisotropic metamaterial cylinder. Journal of Modern Optics, 2012, 59, 778-783.	1.3	1
118	Narrow-band THz coherent Cherenkov radiation in planar dielectric structure. , 2012, , .		1
119	Producing high current sheet electron beam with compact, repetitive Tesla generator. , 2012, , .		3
120	Design and simulation for Q-band folded waveguide traveling-wave tube. , 2012, , .		0
121	Design and fabrication of Q-band folded waveguide Traveling-Wave Tube. , 2012, , .		9
122	1 KW Ka-band folded waveguide Traveling-Wave Tube. , 2011, , .		2
123	Linear Analysis of Dielectric-Lined Azimuthally Periodic Circular Waveguide for TWT. IEEE Transactions on Plasma Science, 2011, 39, 1673-1679.	1.3	5
124	Experimental Investigation of a High-Power Ka-Band Folded Waveguide Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2011, 58, 2159-2163.	3.0	111
125	Stable Sheet-Beam Transport in Periodic Nonsymmetric Quadrupole Field. IEEE Transactions on Plasma Science, 2010, 38, 32-38.	1.3	16
126	Focusing high-current sheet electron beam with elliptical solenoid. , 2010, , .		1

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127	20.3: High power Ka-band Folded Waveguide Traveling-Wave Tube. , 2010, , .		4
128	Investigation of the Dielectric-Loaded Folded Waveguide Traveling-Wave Tube Amplifier. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 1027-1037.	2.2	4
129	Simulation research on the sheet electron beam gun. , 2009, , .		0
130	Effect of Attenuator on BWO Start Oscillation Condition in a Helix Millimeter Wave TWT Under Magnetic Focusing. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 1175-1182.	0.6	4