

Zhaoyun Duan

List of Publications by Year in descending order

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221
papers

1,990
citations

279487

23
h-index

301761

39
g-index

221
all docs

221
docs citations

221
times ranked

717
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of the reversed Cherenkov radiation. Nature Communications, 2017, 8, 14901.	5.8	111
2	Sine Waveguide for 0.22-THz Traveling-Wave Tube. IEEE Electron Device Letters, 2011, 32, 1152-1154.	2.2	107
3	W-Band 1-kW Staggered Double-Vane Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2012, 59, 496-503.	1.6	92
4	A 140-GHz Two-Beam Overmoded Folded-Waveguide Traveling-Wave Tube. IEEE Transactions on Plasma Science, 2011, 39, 847-851.	0.6	61
5	Sub-wavelength waveguide loaded by a complementary electric metamaterial for vacuum electron devices. Physics of Plasmas, 2014, 21, .	0.7	61
6	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.	0.6	58
7	Cherenkov radiation in anisotropic double-negative metamaterials. Optics Express, 2008, 16, 18479.	1.7	56
8	All-metal metamaterial slow-wave structure for high-power sources with high efficiency. Applied Physics Letters, 2015, 107, .	1.5	53
9	Reversed Cherenkov radiation in a waveguide filled with anisotropic double-negative metamaterials. Journal of Applied Physics, 2008, 104, .	1.1	50
10	Enhanced reversed Cherenkov radiation in a waveguide with double-negative metamaterials. Optics Express, 2011, 19, 13825.	1.7	48
11	Metamaterial-Inspired Vacuum Electron Devices and Accelerators. IEEE Transactions on Electron Devices, 2019, 66, 207-218.	1.6	48
12	High-Power Millimeter-Wave BWO Driven by Sheet Electron Beam. IEEE Transactions on Electron Devices, 2013, 60, 471-477.	1.6	47
13	Symmetric Double V-Shaped Microstrip Meander-Line Slow-Wave Structure for W-Band Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2012, 59, 1551-1557.	1.6	46
14	ϵ -Band High-Efficiency Metamaterial Microwave Sources. IEEE Transactions on Electron Devices, 2016, 63, 3747-3752.	1.6	46
15	Study of a Log-Periodic Slow Wave Structure for Ka-band Radial Sheet Beam Traveling Wave Tube. IEEE Transactions on Plasma Science, 2013, 41, 2277-2282.	0.6	44
16	High Isolation Millimeter-Wave Wideband MIMO Antenna for 5G Communication. International Journal of Antennas and Propagation, 2019, 2019, 1-12.	0.7	36
17	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.	1.6	30
18	Characterization of Metamaterial Slow-Wave Structure Loaded With Complementary Electric Split-Ring Resonators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2238-2246.	2.9	29

#	ARTICLE	IF	CITATIONS
19	Dual Band Metamaterial Cherenkov Oscillator With a Waveguide Coupler. IEEE Transactions on Electron Devices, 2017, 64, 2376-2382.	1.6	28
20	Novel S-Band Metamaterial Extended Interaction Klystron. IEEE Electron Device Letters, 2020, 41, 1580-1583.	2.2	27
21	COMPACT UW/B MIMO ANTENNA WITH METAMATERIAL-INSPIRED ISOLATOR. Progress in Electromagnetics Research C, 2018, 84, 61-74.	0.6	26
22	Reversed Cherenkov radiation in unbounded anisotropic double-negative metamaterials. Journal Physics D: Applied Physics, 2009, 42, 185102.	1.3	24
23	Some Advances in Theory and Experiment of High-Frequency Vacuum Electron Devices in China. IEEE Transactions on Plasma Science, 2019, 47, 1971-1990.	0.6	24
24	Effect of Attenuation on Backward-Wave Oscillation Start Oscillation Condition. IEEE Transactions on Plasma Science, 2004, 32, 2184-2188.	0.6	23
25	EXPERIMENTAL DEMONSTRATION OF DOUBLE-NEGATIVE METAMATERIALS PARTIALLY FILLED IN A CIRCULAR WAVEGUIDE. Progress in Electromagnetics Research, 2011, 121, 215-224.	1.6	23
26	Double negative-metamaterial based Terahertz radiation excited by a sheet beam bunch. Physics of Plasmas, 2013, 20, .	0.7	23
27	Study of the Symmetrical Microstrip Angular Log-Periodic Meander-Line Traveling-Wave Tube. IEEE Transactions on Plasma Science, 2016, 44, 1787-1793.	0.6	23
28	Novel electromagnetic radiation in a semi-infinite space filled with a double-negative metamaterial. Physics of Plasmas, 2012, 19, .	0.7	22
29	Study of 220 GHz Dual-Beam Overmoded Photonic Crystal-Loaded Folded Waveguide TWT. IEEE Transactions on Plasma Science, 2019, 47, 2971-2978.	0.6	22
30	Accurate tape analysis of the attenuator-coated helical slow-wave structure. IEEE Transactions on Electron Devices, 2006, 53, 903-909.	1.6	21
31	Suppression of In-Band Power Holes in Helix Traveling-Wave Tubes. IEEE Transactions on Electron Devices, 2011, 58, 1556-1561.	1.6	19
32	Stacked dual beam electron optical system for THz integrated wideband traveling wave tube. Physics of Plasmas, 2019, 26, .	0.7	19
33	Sheet Electron Beam Transport in a Metamaterial-Loaded Waveguide Under the Uniform Magnetic Focusing. IEEE Transactions on Electron Devices, 2016, 63, 2132-2138.	1.6	18
34	A Novel Winding Microstrip Meander-Line Slow-Wave Structure for V-Band TWT. IEEE Electron Device Letters, 2013, 34, 1325-1327.	2.2	17
35	Experimental Investigation of an Electron-Optical System for Terahertz Traveling-Wave Tubes. IEEE Transactions on Electron Devices, 2021, 68, 6498-6504.	1.6	17
36	Stable Sheet-Beam Transport in Periodic Nonsymmetric Quadrupole Field. IEEE Transactions on Plasma Science, 2010, 38, 32-38.	0.6	16

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37	Study on the Radial-Sheet-Beam Electron Optical System. IEEE Transactions on Plasma Science, 2012, 40, 3442-3448.	0.6	16
38	Study on phase velocity tapered microstrip angular log-periodic meander line travelling wave tube. IET Microwaves, Antennas and Propagation, 2016, 10, 902-907.	0.7	16
39	Study of High-Power Ka-Band Rectangular Double-Grating Sheet Beam BWO. IEEE Transactions on Plasma Science, 2014, 42, 1502-1508.	0.6	15
40	Analysis and Simulation of a Multigap Sheet Beam Extended Interaction Relativistic Klystron Amplifier. IEEE Transactions on Plasma Science, 2015, 43, 1862-1870.	0.6	15
41	Compact reversed Cherenkov radiation oscillator with high efficiency. Applied Physics Letters, 2022, 120, .	1.5	15
42	Study of a miniaturized dual-beam TWT with planar dielectric-rods-support uniform metallic meander line. Physics of Plasmas, 2018, 25, .	0.7	13
43	Input and Output Couplers for an Oversized Coaxial Relativistic Klystron Amplifier at Ka-Band. IEEE Transactions on Electron Devices, 2019, 66, 2758-2763.	1.6	13
44	Study on Radial Sheet Beam Electron Optical System for Miniature Low-Voltage Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2017, 64, 3405-3412.	1.6	12
45	Oversized coaxial relativistic extended interaction oscillator with gigawatt-level output at Ka-band. Physics of Plasmas, 2019, 26, 043107.	0.7	12
46	A Novel Scheme for Gain and Power Enhancement of THz TWTs by Extended Interaction Cavities. IEEE Transactions on Electron Devices, 2020, 67, 667-672.	1.6	12
47	Demonstration of a Ka-Band Oversized Coaxial Multi-Beam Relativistic Klystron Amplifier for High Power Millimeter-Wave Radiation. IEEE Electron Device Letters, 2022, 43, 131-134.	2.2	12
48	Impact of attenuator models on computed traveling wave tube performances. Physics of Plasmas, 2007, 14, .	0.7	11
49	Efficiency Improvement of Broadband Helix Traveling Wave Tubes Using Hybrid Phase Velocity Tapering Model. Journal of Electromagnetic Waves and Applications, 2008, 22, 1013-1023.	1.0	11
50	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.	1.0	11
51	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.	1.2	11
52	Analysis of the Dispersion Characteristic and Interaction Impedance of a Tape Helix Slow Wave Structure with Novel Supporting Mode. International Journal of Electronics, 2004, 91, 309-318.	0.9	9
53	Numerical investigation of Cherenkov radiations emitted by an electron beam bunch in isotropic double-negative metamaterials. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 475-480.	0.7	9
54	Study of Low-Voltage Radial Convergent Sheet Electron Optical System. IEEE Transactions on Plasma Science, 2014, 42, 1847-1853.	0.6	9

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55	A High-Power Single Rectangular Grating Sheet Electron Beam Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2016, 63, 3262-3269.	1.6	9
56	THz electromagnetic radiation driven by intense relativistic electron beam based on ion focus regime. Physics of Plasmas, 2016, 23, 063107.	0.7	9
57	Compact wideband MIMO antenna for 5G communication. , 2017, , .		9
58	Sheet Beam Electron Gun with High Current for 220 GHz TWT. , 2018, , .		9
59	STUDY ON SILICON-BASED CONFORMAL MICROSTRIP ANGULAR LOG-PERIODIC MEANDER LINE TRAVELING WAVE TUBE. Progress in Electromagnetics Research M, 2018, 75, 29-37.	0.5	9
60	Investigation on a Ka Band Diamond-Supported Meander-Line SWS. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1460-1468.	1.2	9
61	Theory and Experiment of High-Gain Modified Angular Log-Periodic Folded Waveguide Slow Wave Structure. IEEE Electron Device Letters, 2020, 41, 1237-1240.	2.2	9
62	Experimental Advances in 220 GHz Sheet-Beam Traveling-Wave Tubes. , 2019, , .		8
63	The Conditions for Stable Sheet Electron Beams Transport in Periodic Permanent Magnet Fields. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 649.	1.2	7
64	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.	1.0	7
65	Miniature Metamaterial Backward Wave Oscillator With a Coaxial Coupler. IEEE Transactions on Electron Devices, 2022, 69, 1389-1395.	1.6	7
66	Extended interaction oversized coaxial relativistic klystron amplifier with gigawatt-level output at Ka band. Physics of Plasmas, 2018, 25, .	0.7	6
67	3-D Fast Nonlinear Simulation for Beam-Wave Interaction of Sheet Beam Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2019, 66, 1504-1511.	1.6	6
68	Recent advances in metamaterial klystrons. EPJ Applied Metamaterials, 2021, 8, 9.	0.8	6
69	A NOVEL SLOTTED HELIX SLOW-WAVE STRUCTURE FOR MILLIMETER-WAVE TRAVELING-WAVE TUBE. Progress in Electromagnetics Research, 2013, 135, 347-362.	1.6	6
70	Study on single radial sheet beam azimuthal support angular log- periodic strip line Travelling Wave Tube. , 2018, , .		5
71	Angular log-periodic meander line traveling wave tube based on quartz substrate. , 2018, , .		5
72	Study of an Attenuator Supporting Meander-Line Slow Wave Structure for Ka-Band TWT. Electronics (Switzerland), 2021, 10, 2372.	1.8	5

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73	Study on an X-Band Sheet Beam Meander-Line SWS. IEEE Transactions on Plasma Science, 2020, 48, 4149-4154.	0.6	5
74	A Novel Tunable PCM Focusing System for a 220 GHz Sheet Beam Electron Gun. , 2020, , .		5
75	A Three-stage Depressed Collector for 220 GHz Sheet Beam Traveling-wave Tubes. , 2020, , .		5
76	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.	1.6	5
77	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
78	Investigation into the Effect of Dielectric Loss on RF Characteristics of Helical SWS. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 23-34.	0.6	4
79	Development of metamaterial microwave radiation sources. , 2015, , .		4
80	A new metamaterial-based UWB MIMO antenna. , 2015, , .		4
81	Recent advances in theory and experiment of metamaterial-based high power radiation sources. , 2016, , .		4
82	Theoretical investigation of rectangular sheet beam transport in a waveguide loaded by a metamaterial. , 2016, , .		4
83	Review of metamaterial-inspired vacuum electron devices. , 2018, , .		4
84	Study on the ridge loaded azimuthal supported angular log-periodic strip meander line slow wave structure. , 2018, , .		4
85	Study of Sheet Beam Electron Optical System and Energy Coupler for Wideband 340GHz TWT. , 2019, , .		4
86	Microfabrication of A Conformal Microstrip Angular Log-periodic Meander Line TWT. , 2019, , .		4
87	Investigation of angular log-periodic folded groove waveguide slow-wave structure for low voltage Ka-band TWT. AIP Advances, 2020, 10, , .	0.6	4
88	Dielectric-Supported Staggered Dual Meander-Line Slow Wave Structure for an E -Band TWT. IEEE Transactions on Electron Devices, 2021, 68, 369-375.	1.6	4
89	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.	0.6	4
90	Producing high current sheet electron beam with compact, repetitive Tesla generator. , 2012, , .		3

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91	Sheet electron beam formation and transport in the uniform magnetic field. , 2013, , .		3
92	A novel angular log-periodic micro-strip meander-line slow wave structure for low-voltage and wideband traveling wave tube. , 2013, , .		3
93	Optimization of multi-gap extended output cavity for a G-band sheet beam extended interaction klystron. , 2014, , .		3
94	An arbitrary staggered multi-vane traveling wave tube driven by double sheet electron beams. , 2015, , .		3
95	Design of the radial divergent sheet beam electron optical system with radial quasi-uniform magnetic field. , 2015, , .		3
96	A D-band backward-wave oscillator based on quasi-parallel-plate slow-wave structure. , 2015, , .		3
97	Novel vacuum electronic devices based on reversed cherenkov radiation. , 2015, , .		3
98	Steering surface plasmon wakes. Nature Nanotechnology, 2015, 10, 736-737.	15.6	3
99	Metamaterial-based high-power microwave radiation sources. , 2015, , .		3
100	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.	1.0	3
101	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.	1.0	3
102	Investigation of Staggered Double Grating Slow Wave Structure Loaded by Photonic Crystals. , 2018, , .		3
103	Design of W-band sheet beam travelling wave tubes based on staggered double vane slow wave structure. Journal of Engineering, 2018, 2018, 698-703.	0.6	3
104	Oversized coaxial output cavity for Ka band relativistic klystron. Journal of Engineering, 2018, 2018, 678-681.	0.6	3
105	Microstrip angular log-periodic slow wave structure on quartz substrate with coaxial input/output coupler. Journal of Engineering, 2018, 2018, 692-697.	0.6	3
106	Simulation and cold test of 220GHz staggered double vane slow wave structure. , 2018, , .		3
107	Investigation of low voltage angular log-periodic folded groove waveguide slow wave structure for C-band TWT. , 2018, , .		3
108	Study for 850 GHz sheet beam staggered double-vane traveling wave tube considering the metal loss. , 2018, , .		3

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109	Study of low voltage angular log-periodic slow wave structure for 340 GHz TWT. , 2019, , .		3
110	Transmission Characteristics of 220 GHz T-shape Staggered Double-Vane Slow Wave Structure. , 2019, , .		3
111	Double-Anode Sheet-Beam Electron Gun with a Circular Cathode for 220 GHz TWT. , 2019, , .		3
112	An Active Transmission Matrix-Based Nonlinear Analysis for Folded Waveguide TWT. IEEE Transactions on Electron Devices, 2020, 67, 1205-1210.	1.6	3
113	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.	1.6	3
114	A Ka-Band Angular Log-Periodic Meander-Line SWS Supported by Diamond Rods. IEEE Transactions on Electron Devices, 2022, 69, 1374-1379.	1.6	3
115	A 0.14 THz Angular Radial Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2022, 69, 1468-1473.	1.6	3
116	Metamaterial assisted microwave tubes: a review. Journal of Electromagnetic Waves and Applications, 2022, 36, 1189-1211.	1.0	3
117	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.	1.6	3
118	Research of Efficiency Enhancement in a Helix TWT with Simulated Annealing Algorithm. , 2007, , .		2
119	DESIGN OF A HIGH POWER, HIGH EFFICIENCY KA-BAND HELIX TRAVELING-WAVE TUBE. Progress in Electromagnetics Research Letters, 2013, 42, 187-199.	0.4	2
120	A 140 GHz improved slow-wave structure based on staggered double-vane. , 2014, , .		2
121	Ka-band traveling wave tube driving by relativistic sheet electron beam. , 2015, , .		2
122	Design of the radial divergent sheet beam electron optical system with cylindrical emission surface. , 2015, , .		2
123	Simulation study of a W-band broadband extended interaction klystron. , 2016, , .		2
124	Study on Ka-Band Sheet Beam Traveling Wave Tube Focused by Closed PCM. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 561-571.	1.2	2
125	Recent advances in high-power metamaterial microwave sources at UESTC. , 2017, , .		2
126	High frequency characteristics of a metamaterial slow wave structure. , 2018, , .		2

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127	A miniaturized high-gain, high-efficiency metamaterial assisted S-band extended interaction klystron. , 2019, , .		2
128	The Interaction Between Two-dimensional Electron Gas and Terahertz Plasma Wave in HEMT-like Structure. , 2019, , .		2
129	A Semi-Analytic Numerical Algorithm of Diamond Pillbox Windows for Terahertz Vacuum Electron Device Applications. IEEE Electron Device Letters, 2021, 42, 252-255.	2.2	2
130	A Simulation Method Based on Nonlinear Theory for Noise Analysis in Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2021, 68, 5858-5863.	1.6	2
131	Staggered Double-vane Slow-wave Structure with Attenuators for a 220 GHz Sheet Beam Traveling-wave Tube. , 2021, , .		2
132	The Effect of LBS and LBSCA Glass on the Sintering and Microwave Dielectric Properties of $\text{Li}_2(\text{Mg}_{0.96}\text{Ni}_{0.04})\text{SiO}_4$ Ceramic. Journal of Electronic Materials, 0, , 1.	1.0	2
133	A Thermal Analysis Method for Dielectric Supported Ring-bar Meander Line Slow Wave Structure. , 2020, , .		2
134	S Band Miniaturized Reversed Cherenkov Oscillator with Uniform Magnetic Focusing System. , 2020, , .		2
135	Grid-controlled Electron Gun for the S-band Reversed Cherenkov Oscillator. , 2021, , .		2
136	Attenuation Theory of the Attenuator-Coated Helical Slow-Wave Structure. , 2006, , .		1
137	Theoretical investigation into Cherenkov radiation in an anisotropic double-negative medium. , 2008, , .		1
138	Focusing high-current sheet electron beam with elliptical solenoid. , 2010, , .		1
139	16.5: The suppression of BWO power holes in the TWTs using the helix pitch taper method. , 2010, , .		1
140	Reversed Cherenkov radiation in a half space. , 2011, , .		1
141	Virtual boundary element method for multistage depressed collector of traveling-wave tubes. Physics of Plasmas, 2011, 18, 043106.	0.7	1
142	Simulation of a 94GHz radial spiral waveguide TWT. , 2012, , .		1
143	Ellipse-shaped electron gun for W-band sheet beam devices. , 2012, , .		1
144	Enhanced surface wave based on double-negative metamaterials. , 2012, , .		1

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145	Investigation of a novel folded waveguide slow wave structure for traveling wave tube. , 2013, , .		1
146	An open-sided PCM for elliptical sheet beam transport. , 2014, , .		1
147	Study of the radial tunable PCM focusing system. , 2016, , .		1
148	Design of a two-stage Ka-band relativistic sheet electron beam traveling wave tube. , 2017, , .		1
149	A triple-band planar monopole antenna for GPS/LTE/WLAN/Wi-Fi/WiMAX systems. , 2017, , .		1
150	S band improved metamaterial slow-wave structure. , 2017, , .		1
151	A non-axisymmetric structure multistage depressed collector for sheet beam VEDs. , 2017, , .		1
152	Study of a Ka-Band High-Power All-Metal Metamaterial Microwave Generator. , 2018, , .		1
153	Uniform permanent magnetic field with hemi-ladder structure for sheet electron beam focusing. , 2018, , .		1
154	Analysis of high-order mode self-oscillation in an oversized coaxial relativistic Klystron amplifier at Ka band. , 2018, , .		1
155	Electron Optical System with Uniform Magnetic Field for 220 GHz Sheet Beam TWT. , 2019, , .		1
156	Preliminary experimental investigations into an oversized coaxial relativistic klystron amplifier at Ka band. , 2019, , .		1
157	Thermal and Stress Analysis of the planar slow wave structure for Ka-band TWT. , 2019, , .		1
158	Design and Experiment of 4ÂMW Ka Band Sheet Electron Beam TWT. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 637-647.	1.2	1
159	Electron-optical System for a Q-band Helix Traveling-wave Tube. , 2021, , .		1
160	Design and Cold Test of a Ka-band Fan-Shaped Metal Loaded Helix Traveling Wave Tube. , 2020, , .		1
161	A Multi-Beam Terahertz Coaxial Cavity Reflex Klystron. , 2020, , .		1
162	Compact and High-efficiency Metamaterial Extended Interaction Oscillator. , 2020, , .		1

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163	Investigation on a 0.34THz Dual-Open-Cavity Extended Interaction Klystron. , 2021, , .		1
164	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.	1.6	1
165	Simulation Design of G -Band FWG TWT Amplifier Enhanced by $\tilde{\epsilon}$ -Mode Extended Interaction. IEEE Transactions on Electron Devices, 2022, 69, 4604-4610.	1.6	1
166	Analysis of BWO start oscillation condition in the practical TWT. , 0, , .		0
167	Analysis of BWO start oscillation condition in a helix TWT with attenuator under magnetic focusing. , 0, , .		0
168	Influence of Attenuator on the Performance of the Helix TWTs. , 0, , .		0
169	Theoretical Determination of TWT Helix Loss. , 2007, , .		0
170	3D simulation of Wiggler field focusing sheet electron beam. , 2008, , .		0
171	Simulation research on the sheet electron beam gun. , 2009, , .		0
172	Recent advancements in a novel reversed Cherenkov radiation. , 2010, , .		0
173	Enhanced evanescent wave at terahertz region. , 2011, , .		0
174	Study of BWO power holes in helix traveling wave tubes. , 2011, , .		0
175	Double negative behavior of a circular waveguide with metamaterials. , 2012, , .		0
176	A novel serpentine waveguide slow-wave structure with caps and posts. , 2012, , .		0
177	Analysis of the three types of folded waveguide slow-wave structure for 140GHz traveling wave tube. , 2014, , .		0
178	Study on surface waves in a medium plate made from negative index materials. , 2014, , .		0
179	A square helix slow-wave structure for millimeter-wave TWTs. , 2014, , .		0
180	The spatial growth rate of a negative material involved Cherenkov free-electron laser. , 2015, , .		0

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181	THz sheet beam backward wave tube with double corrugated waveguide slow wave structure. , 2015, , .		0
182	Metamaterial-based planar THz sources. , 2015, , .		0
183	Research on 0.22THz folded-waveguide traveling-wave tube with a proper phase-velocity taper. , 2015, , .		0
184	Compact high isolation WLAN MIMO antenna based on CRLH. , 2015, , .		0
185	Study on Ka-band relativistic sheet electron beam Orotron. , 2015, , .		0
186	Overview of vacuum electron devices for biomedical applications. , 2015, , .		0
187	Dual-band transmission measurement in a metamaterial. , 2017, , .		0
188	THz electromagnetic radiation in beam-plasma system under different ions' quantity. , 2017, , .		0
189	S band metamaterial-based sheet beam device. , 2017, , .		0
190	Study for 340 GHz staggered double-vane traveling wave tube with phase velocity taper. , 2017, , .		0
191	Study of 220GHz relativistic BWO with phase velocity taper. , 2017, , .		0
192	220 GHz Dual Beam Photonic Crystal Folded Waveguide TWT. , 2018, , .		0
193	Novel Microwave Oscillator Based on the Complementary Split-Ring Resonators. , 2018, , .		0
194	THz electromagnetic radiation in beam-plasma system under different plasma distribution. , 2018, , .		0
195	Design of a 340GHz phase-velocity-taper travelling wave tube. Journal of Engineering, 2018, 2018, 673-677. 0.6		0
196	Study on plasma-photonic-crystal-like beam-plasma system. Journal of Engineering, 2018, 2018, 669-672. 0.6		0
197	Study on Broadband Ridge-Loaded Symmetrical Conformal Microstrip Meander Line Traveling Wave Tube at Ka- Band. , 2019, , .		0
198	Theoretical Investigation into an Ultra-Wideband Helix Traveling-Wave Tube. , 2019, , .		0

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199	Design of a Sheet Beam Electron Gun for 850GHz Staggered Double Vane Traveling Wave Tube. , 2019, , .		0
200	An S-Band Reversed Cherenkov Oscillator in a Novel All-Metal Metamaterial Miniaturized Slow-Wave Structure. , 2019, , .		0
201	Design Analysis and Simulation Investigation of S-band MILO. , 2019, , .		0
202	Investigation on 0.1 THz Array Beams Folded Waveguide Traveling Wave Tube. , 2019, , .		0
203	Two-dimensional particle simulation and analysis of ion noise in TWT. , 2019, , .		0
204	Analysis of Folded Waveguide TWT with Non-Central Double Beams. , 2019, , .		0
205	Metamaterial-based Vacuum Electronic Devices with Miniaturization. , 2020, , .		0
206	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.	0.6	0
207	Helix Slow-wave Structure with Changed Pitches for a Q-band Traveling-wave Tube. , 2021, , .		0
208	Metamaterial-based Radiation Sources with Free Electrons. , 2021, , .		0
209	S-band Two-gap Metamaterial Extended Interaction Oscillator. , 2021, , .		0
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