Zhanliang Wang

List of Publications by Citations

91 papers	553 citations	11 h-index	18 g-index
153 ext. papers	732 ext. citations	2.3 avg, IF	3.62 L-index

#	Paper	IF	Citations
91	Observation of the reversed Cherenkov radiation. *Nature Communications*, **2017**, 8, 14901	17.4	62
90	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	43
89	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	1.3	31
88	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	2.9	22
87	Characterization of Metamaterial Slow-Wave Structure Loaded With Complementary Electric Split-Ring Resonators. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 2238-2246	4.1	14
86	Stacked dual beam electron optical system for THz integrated wideband traveling wave tube. *Physics of Plasmas*, **2019**, 26, 063106	2.1	14
85	Study of High-Power Ka-Band Rectangular Double-Grating Sheet Beam BWO. *IEEE Transactions on Plasma Science*, **2014**, 42, 1502-1508	1.3	14
84	Stable Sheet-Beam Transport in Periodic Nonsymmetric Quadrupole Field. *IEEE Transactions on Plasma Science*, **2010**, 38, 32-38	1.3	14
83	Study on phase velocity tapered microstrip angular log-periodic meander line travelling wave tube. *IET Microwaves, Antennas and Propagation*, **2016**, 10, 902-907	1.6	14
82	Study of the Symmetrical Microstrip Angular Log-Periodic Meander-Line Traveling-Wave Tube. *IEEE Transactions on Plasma Science*, **2016**, 44, 1787-1793	1.3	14
81	. *IEEE Transactions on Plasma Science*, **2019**, 47, 2971-2978	1.3	13
80	Novel S-Band Metamaterial Extended Interaction Klystron. *IEEE Electron Device Letters*, **2020**, 41, 1580-1583	4.4	11
79	Sheet Electron Beam Transport in a Metamaterial-Loaded Waveguide Under the Uniform Magnetic Focusing. *IEEE Transactions on Electron Devices*, **2016**, 63, 2132-2138	2.9	11
78	Study on Radial Sheet Beam Electron Optical System for Miniature Low-Voltage Traveling-Wave Tube. *IEEE Transactions on Electron Devices*, **2017**, 64, 3405-3412	2.9	10
77	Input and Output Couplers for an Oversized Coaxial Relativistic Klystron Amplifier at Ka-Band. *IEEE Transactions on Electron Devices*, **2019**, 66, 2758-2763	2.9	10
76	Analysis and Simulation of a Multigap Sheet Beam Extended Interaction Relativistic Klystron Amplifier. *IEEE Transactions on Plasma Science*, **2015**, 43, 1862-1870	1.3	10
75	. *IEEE Electron Device Letters*, **2020**, 41, 284-287	4.4	10

74	A Modified Slow-Wave Structure for Backward-Wave Oscillator Design in THz Band. *IEEE Transactions on Terahertz Science and Technology*, **2014**, 4, 741-748	3.4	9
73	Study of Low- Voltage Radial Convergent Sheet Electron Optical System. *IEEE Transactions on Plasma Science*, **2014**, 42, 1847-1853	1.3	9
72	Investigation of Double Tunnel Sine Waveguide Slow-Wave Structure for Terahertz Dual-Beam TWT. *IEEE Transactions on Electron Devices*, **2020**, 67, 2176-2181	2.9	8
71	Dual-band circularly polarised planar monopole antenna for WLAN/Wi-Fi/Bluetooth/WiMAX applications. *IET Microwaves, Antennas and Propagation*, **2018**, 12, 972-976	1.6	8
70	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	8
69	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	1.3	7
68	Novel Helical Groove Rectangular Waveguide Slow Wave Structure for 0.2 THz Traveling Wave Tube. *IEEE Electron Device Letters*, **2019**, 40, 1526-1529	4.4	6
67	High power folded waveguide traveling wave tube based on variable-width technology. *Physics of Plasmas*, **2019**, 26, 053106	2.1	6
66	Oversized coaxial relativistic extended interaction oscillator with gigawatt-level output at Ka-band. *Physics of Plasmas*, **2019**, 26, 043107	2.1	6
65	Experimental Investigation of an Electron-Optical System for Terahertz Traveling-Wave Tubes. *IEEE Transactions on Electron Devices*, **2021**, 1-7	2.9	6
64	A High-Power Single Rectangular Grating Sheet Electron Beam Traveling-Wave Tube. *IEEE Transactions on Electron Devices*, **2016**, 63, 3262-3269	2.9	6
63	Theory and Experiment of High-Gain Modified Angular Log-Periodic Folded Waveguide Slow Wave Structure. *IEEE Electron Device Letters*, **2020**, 41, 1237-1240	4.4	5
62	Third-Harmonic Traveling-Wave Tube Multiplier-Amplifier. *IEEE Transactions on Electron Devices*, **2018**, 65, 2189-2194	2.9	5
61	Study on single radial sheet beam azimuthal support angular log- periodic strip line Travelling Wave Tube **2018**,		5
60	Investigation on a Ka Band Diamond-Supported Meander-Line SWS. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2020**, 41, 1460-1468	2.2	5
59	Microfabrication of A Conformal Microstrip Angular Log-periodic Meander Line TWT **2019**,		4
58	Extended interaction oversized coaxial relativistic klystron amplifier with gigawatt-level output at Ka band. *Physics of Plasmas*, **2018**, 25, 043116	2.1	4
57	Study of a miniaturized dual-beam TWT with planar dielectric-rods-support uniform metallic meander line. *Physics of Plasmas*, **2018**, 25, 063113	2.1	4

56	Study on the ridge loaded azimuthal supported angular log-periodic strip meander line slow wave structure **2018**,		4
55	Angular log-periodic meander line traveling wave tube based on quartz substrate **2018**,		4
54	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	4.4	4
53	Study on an X-Band Sheet Beam Meander-Line SWS. *IEEE Transactions on Plasma Science*, **2020**, 48, 4149-4154	1.3	4
52	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	1.3	4
51	Experimental Advances in 220 GHz Sheet-Beam Traveling-Wave Tubes **2019**,		4
50	Designing a Water-Immersed Rectangular Horn Antenna for Generating Underwater OAM Waves. *Electronics (Switzerland)*, **2019**, 8, 1224	2.6	4
49	3-D Fast Nonlinear Simulation for Beam–Wave Interaction of Sheet Beam Traveling-Wave Tube. *IEEE Transactions on Electron Devices*, **2019**, 66, 1504-1511	2.9	4
48	Investigation of angular log-periodic folded groove waveguide slow-wave structure for low voltage Ka-band TWT. *AIP Advances*, **2020**, 10, 035030	1.5	3
47	Investigation of low voltage angular log-periodic folded groove waveguide slow wave structure for G-band TWT **2018**,		3
46	Study of low voltage angular log-periodic slow wave structure for 340 GHz TWT **2019**,		3
45	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	1.3	3
44	Optimization of multi-gap extended output cavity for a G-band sheet beam extended interaction klystron **2014**,		3
43	A numerical study for dielectric constant profile of aqueous solvent in ionic solution radiated by high-intensity electric pulses. *AIP Advances*, **2018**, 8, 115217	1.5	3
42	Sheet Beam Electron Gun with High Current for 220 GHz TWT **2018**,		3
41	0.85 THz truncated sine waveguide traveling-wave tube with sheet beam tunnel. *Journal of Engineering*, **2018**, 2018, 665-668	0.7	3
40	Design of W-band sheet beam travelling wave tubes based on staggered double vane slow wave structure. *Journal of Engineering*, **2018**, 2018, 698-703	0.7	3
39	Oversized coaxial output cavity for Ka band relativistic klystron. *Journal of Engineering*, **2018**, 2018, 678-681	0.7	3

38	Dielectric-Supported Staggered Dual Meander-Line Slow Wave Structure for an E-Band TWT. *IEEE Transactions on Electron Devices*, **2021**, 68, 369-375	2.9	3
37	A 340 GHz High-Power Multi-Beam Overmoded Flat-Roofed Sine Waveguide Traveling Wave Tube. *Electronics (Switzerland)*, **2021**, 10, 3018	2.6	3
36	Design of a low-gain high-power W-band sheet-beam traveling wave tube using a double-staggered grating slow wave structure. *Journal of Electromagnetic Waves and Applications*, **2019**, 33, 1996-2008	1.3	2
35	Sheet electron beam formation and transport in the uniform magnetic field **2013**,		2
34	A novel angular log-periodic micro-strip meander-line slow wave structure for low-voltage and wideband traveling wave tube **2013**,		2
33	An arbitrary staggered multi-vane traveling wave tube driven by double sheet electron beams **2015** ,		2
32	A Novel Scheme for Gain and Power Enhancement of THz TWTs by Extended Interaction Cavities. *IEEE Transactions on Electron Devices*, **2020**, 67, 667-672	2.9	2
31	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	2
30	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	2.9	2
29	Theoretical investigation of rectangular sheet beam transport in a waveguide loaded by a metamaterial **2016**,		2
28	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	1.3	2
27	Investigation of Sine Groove Waveguide Slow Wave Structure for Terahertz Traveling Wave Tube. *IEEE Transactions on Electron Devices*, **2021**, 68, 804-810	2.9	2
26	Study of a Water-Immersed Orbital Angular Momentum Horn Antenna **2018**,		2
25	Microstrip angular log-periodic slow wave structure on quartz substrate with coaxial input/output coupler. *Journal of Engineering*, **2018**, 2018, 692-697	0.7	2
24	Study of an Attenuator Supporting Meander-Line Slow Wave Structure for Ka-Band TWT. *Electronics (Switzerland)*, **2021**, 10, 2372	2.6	2
23	Design and Experiment of 4 MW Ka Band Sheet Electron Beam TWT. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2019**, 40, 637-647	2.2	1
22	Experiment on the electromagnetic radiation excited in an electron beam-ion channel system. *Contributions To Plasma Physics*, **2019**, 59, e201900035	1.4	1
21	Simulation study of a W-band broadband extended interaction klystron **2016**,		1

20	Study for 850 GHz sheet beam staggered double-vane traveling wave tube considering the metal loss **2018**,		1
19	Preliminary experimental investigations into an oversized coaxial relativistic klystron amplifier at Ka band **2019**,		1
18	Design of a two-stage Ka-band relativistic sheet electron beam traveling wave tube **2017**,		1
17	Study of a water-immersed ultra-wide band microstrip patch antenna **2017**,		1
16	Ka-band traveling wave tube driving by relativistic sheet electron beam **2015**,		1
15	Recent advances in theory and experiment of metamaterial-based high power radiation sources **2016**,		1
14	Double-Anode Sheet-Beam Electron Gun with a Circular Cathode for 220 GHz TWT **2019**,		1
13	The Interaction Between Two-dimensional Electron Gas and Terahertz Plasma Wave in HEMT-like Structure **2019**,		1
12	A Semi-Analytic Numerical Algorithm of Diamond Pillbox Windows for Terahertz Vacuum Electron Device Applications. *IEEE Electron Device Letters*, **2021**, 42, 252-255	4.4	1
11	Investigation of Staggered Double Grating Slow Wave Structure Loaded by Photonic Crystals **2018**,		1
10	A 0.14 THz Angular Radial Extended Interaction Oscillator. *IEEE Transactions on Electron Devices*, **2022**, 69, 1468-1473	2.9	1
9	An Active Transmission Matrix-Based Nonlinear Analysis for Folded Waveguide TWT. *IEEE Transactions on Electron Devices*, **2020**, 67, 1205-1210	2.9	
8	Design of a 340□GHz phase-velocity-taper travelling wave tube. *Journal of Engineering*, **2018**, 2018, 673-67	0.7	
7	A Ka-Band Angular Log-Periodic Meander-Line SWS Supported by Diamond Rods. *IEEE Transactions on Electron Devices*, **2022**, 1-6	2.9	
6	A Simulation Method Based on Nonlinear Theory for Noise Analysis in Traveling-Wave Tube. *IEEE Transactions on Electron Devices*, **2021**, 1-6	2.9	
5	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	
4	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	1.5	
3	The Effects of Grating Profile on Dispersion Relations of Surface Plasmon Polaritons in Kretschmann□aether Configuration. *Plasmonics*,1	2.4	

2	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**, 1-6	1.3
1	Terahertz radiation generated by electron-beam-driven plasma waves in a transverse external magnetic field. *Physics of Plasmas*, **2022**, 29, 053106	2.1