

Shaomeng Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Novel V-Shaped Microstrip Meander-Line Slow-Wave Structure for W-band MMPM. IEEE Transactions on Plasma Science, 2012, 40, 463-469.	0.6	87
2	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
3	A Novel Ridge-Vane-Loaded Folded-Waveguide Slow-Wave Structure for 0.22-THz Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2013, 60, 1228-1235.	1.6	35
4	On-Wafer Microstrip Meander-Line Slow-Wave Structure at Ka-Band. IEEE Transactions on Electron Devices, 2018, 65, 2142-2148.	1.6	35
5	Generation of Continuously Variable-Mode Vortex Electromagnetic Waves With Three-Dimensional Helical Antenna. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1091-1095.	2.4	35
6	High-order acoustic vortex field generation based on a metasurface. Physical Review E, 2019, 100, 053315.	0.8	34
7	Ka-Band Symmetric V-Shaped Meander-Line Slow Wave Structure. IEEE Transactions on Plasma Science, 2019, 47, 4650-4657.	0.6	27
8	Acoustic impact of the human skull on transcranial photoacoustic imaging. Biomedical Optics Express, 2021, 12, 1512.	1.5	25
9	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
10	A Wideband Microfabricated Ka-Band Planar Helix Slow-Wave Structure. IEEE Transactions on Electron Devices, 2016, 63, 2900-2906.	1.6	23
11	MRC-Based Double Figure-of-Eight Coil Sensor System With Triple-Mode Operation Capability for Biomedical Applications. IEEE Sensors Journal, 2021, 21, 14491-14502.	2.4	19
12	Transient proton transfer of base pair hydrogen bonds induced by intense terahertz radiation. Physical Chemistry Chemical Physics, 2020, 22, 9316-9321.	1.3	17
13	Study on the Radial-Sheet-Beam Electron Optical System. IEEE Transactions on Plasma Science, 2012, 40, 3442-3448.	0.6	16
14	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
15	Complex Permittivity Characterization of Liquid Samples Based on a Split Ring Resonator (SRR). Sensors, 2021, 21, 3385.	2.1	16
16	Design of a Sheet-Beam Electron-Optical System for a Microfabricated \log -Periodic Meander-Line Traveling-Wave Tube Using a Cold Cathode. IEEE Transactions on Electron Devices, 2016, 63, 3725-3732.	1.6	15
17	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
18	Laser-Induced Surface Acoustic Wave Sensing-Based Malaria Parasite Detection and Analysis. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	12

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19	Theoretical investigation on the effect of terahertz wave on Ca ²⁺ transport in the calcium channel. <i>IScience</i> , 2022, 25, 103561.	1.9	12
20	Design and Cold Test of Dual Beam Azimuthal Supported Angular Log-Periodic Strip-Line Slow Wave Structure. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 785-795.	1.2	11
21	A Photoacoustic-Surface-Acoustic-Wave Sensor for Ring-Stage Malaria Parasite Detection. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 881-885.	2.2	11
22	Complex Permittivity Measurement of High-Loss Biological Material with Improved Cavity Perturbation Method in the Range of 26.5â€“40 GHz. <i>Electronics (Switzerland)</i> , 2020, 9, 1200.	1.8	10
23	Theory and Experiment of High-Gain Modified Angular Log-Periodic Folded Waveguide Slow Wave Structure. <i>IEEE Electron Device Letters</i> , 2020, 41, 1237-1240.	2.2	9
24	Field emission properties of SiO ₂ -wrapped CNT field emitter. <i>Nanotechnology</i> , 2018, 29, 015202.	1.3	8
25	A Novel Coplanar Slow-Wave Structure for Millimeter-Wave BWO Applications. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 1924-1929.	1.6	8
26	Low-Cost Dual-Band Multipolarization Aperture-Shared Antenna With Single-Layer Substrate. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 1337-1341.	2.4	7
27	Ka-band dual sheet beam traveling wave tube using supported planar ring-bar slow wave structure. <i>Journal of Electromagnetic Waves and Applications</i> , 2020, 34, 2236-2250.	1.0	7
28	High Power Angular Radial Staggered Vane Backward Wave Oscillator at W-Band. <i>IEEE Electron Device Letters</i> , 2020, 41, 765-768.	2.2	7
29	Designing a Water-Immersed Rectangular Horn Antenna for Generating Underwater OAM Waves. <i>Electronics (Switzerland)</i> , 2019, 8, 1224.	1.8	6
30	Tertiary Base Triple Formation in the SRV-1 Frameshifting Pseudoknot Stabilizes Secondary Structure Components. <i>Biochemistry</i> , 2020, 59, 4429-4438.	1.2	6
31	Wideband Power Combining of Four Microfabricated W-Band Traveling-Wave Tubes. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 3849-3856.	1.6	5
32	Study of an Attenuator Supporting Meander-Line Slow Wave Structure for Ka-Band TWT. <i>Electronics (Switzerland)</i> , 2021, 10, 2372.	1.8	5
33	On the molecular mechanisms implicated in the bipolar cancellation of membrane electroporation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183811.	1.4	5
34	A wideband planar helix slow-wave structure for millimeter-wave TWTs. , 2015, , .		4
35	A W -Band Backward-Wave Oscillator Based on Planar Helix Slow Wave Structure. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 5097-5102.	1.6	4
36	Simulation of terahertz-band metamaterial sensor for thin film analyte detection. <i>AIP Advances</i> , 2020, 10, .	0.6	4

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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, .	0.6	4
38	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
39	THz trapped ion model and THz spectroscopy detection of potassium channels. Nano Research, 2022, 15, 3825-3833.	5.8	4
40	Multiple Dielectric-Supported Ridge-Loaded Rhombus-Shaped Wideband Meander-Line Slow-Wave Structure for a V-Band TWT. Electronics (Switzerland), 2022, 11, 405.	1.8	4
41	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
42	A novel angular log-periodic micro-strip meander-line slow wave structure for low-voltage and wideband traveling wave tube. , 2013, , .		3
43	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
44	PIC Simulation of the Coherent Cerenkov Cyclotron Radiation Excited by a High-Power Electron Beam in a Crossed-Elliptical Metamaterial Oscillator at S-Band. IEEE Transactions on Plasma Science, 2021, 49, 3351-3357.	0.6	3
45	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
46	A 0.14 THz Angular Radial Extended Interaction Oscillator. IEEE Transactions on Electron Devices, 2022, 69, 1468-1473.	1.6	3
47	Study on high power Ka-band rectangular double-grating sheet beam device. , 2013, , .		2
48	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
49	Design and Sensitivity Analysis of an Electro-Optical System for a Ka-Band Traveling Wave Tube. , 2021, , .		2
50	A Thermal Analysis Method for Dielectric Supported Ring-bar Meander Line Slow Wave Structure. , 2020, , .		2
51	Simulation of a 94GHz radial spiral waveguide TWT. , 2012, , .		1
52	Investigation of a novel folded waveguide slow wave structure for traveling wave tube. , 2013, , .		1
53	Magnetic circuit for a sheet electron beam Ka-band microfabricated traveling wave tube. , 2016, , .		1
54	A Noninvasive Field-Enhanced Magnetic Stimulator Using Secondary Ferrite Core and Resonant Structure. , 2020, , .		1

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55	Electron-optical System for a Q-band Helix Traveling-wave Tube. , 2021, , .		1
56	A High Selectivity Filter Antenna Array for Generating Dual-Mode OAM. , 2020, , .		1
57	Investigation on a 0.34THz Dual-Open-Cavity Extended Interaction Klystron. , 2021, , .		1
58	Plasma Frequency Reduction Factors of Sheet Electron Beam in Rectangular Waveguide. , 2021, , .		1
59	Simulation Design of <i>G</i> -Band FWG TWT Amplifier Enhanced by <i>H</i> -Mode Extended Interaction. IEEE Transactions on Electron Devices, 2022, 69, 4604-4610.	1.6	1
60	High power terahertz radiation generated by beam-plasma system in multi-filament regime. Physics of Plasmas, 2022, 29, 073103.	0.7	1
61	A Novel Beam Forming Electrode for Sheet Beam Electron Gun. , 2019, , .		0
62	The Effects of Grating Profile on Dispersion Relations of Surface Plasmon Polaritons in Kretschmann-Raether Configuration. Plasmonics, 2021, 16, 2249-2258.	1.8	0
63	Terahertz sensor for highly sensitive detection and distinction of food additives based on TDS technology. , 2021, , .		0
64	Theoretical Study on Terahertz Oscillation of Protons in Zundel Cations. , 2021, , .		0
65	Numerical Computation of Hydrodynamic Equations Based on Dyakonov-Shur Instability. , 2021, , .		0
66	PIC Simulation of Multi-beam Terahertz Coaxial Resonator Reflex Klystron. , 2021, , .		0
67	Design of a High Compression Ratio Electron Gun for Terahertz TWT Applications. , 2021, , .		0
68	A W-Band Radial Klystron Amplifier. , 2021, , .		0
69	Dispersion Relationship of a Split Ring Resonator Metamaterial Arranged in a Circular Waveguide. , 2020, , .		0
70	PIC Simulations of an S-Band Surface Wave Microwave Oscillator Using a Two-Spiral Metamaterial Structure. , 2020, , .		0
71	Study of Two-dimensional Plasmon Resonance of a Grating Gate HEMT. , 2022, , .		0
72	Dielectric-supported Rhombus-shaped Meander-line Slow-wave Structure for a V-band Dual-sheet Beam Traveling Wave Tube. , 2022, , .		0