Guo Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85	591	13	19
papers	citations	h-index	g-index
121	800	2.7	4.07
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
85	Synthesis of Highly Oversized TEIto TEIMode Converter Based on Elliptical Waveguide. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-1	4.1	
84	Circular TE🖩 Mode Content Analysis Technique for High-Power Gyro-TWT System. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 70, 1169-1177	4.1	
83	Influence of the Output Window Reflection on the Performance of W-Band Gyrotron Traveling Wave Tubes. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-7	2.9	4
82	A More Accurate Measurement Method of the Dielectric Material Properties With High Tolerance Using an Overmoded Waveguide. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-7	4.1	1
81	Design and Analysis of a Diode Magnetron Injection Gun for a G-Band Gyro-TWT. <i>IEEE Transactions</i> on Electron Devices, 2022 , 1-6	2.9	3
80	Design and Cold Test of a G-Band 10-kW-Level Pulse TEEMode Gyrotron Traveling-Wave Tube. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-7	2.9	5
79	Design and Measurement of Terahertz-Band Rectangular TE \$_{10}\$ to Circular TE \$_{n1}\$ /TE \$_{0p}\$ /TE \$_{1q}\$ Mode Converters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-1	4.1	
78	High Average Power Test of a W-band Broadband Gyrotron Traveling Wave Tube. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	4
77	Design and Experiment of a Dielectric-Loaded Gyro-TWT With a Single Depressed Collector. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-6	2.9	
76	High Average Power Investigation of Dielectric Dissipation in the W-Band Gyro-TWT. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-7	2.9	1
75	Investigation of High Interaction Efficiency of Sheet Beam TWT Based on All-Period Optimization and Beam Bunching Analysis. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 6451-6457	2.9	2
74	The High-Order Coalesced TM11-Like Mode Operation for 220 GHz Sheet Beam Traveling-Wave Tube. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021 , 11, 159-164	3.4	5
73	A Wideband High-Voltage Longitudinal Output Structure for Ka-Band Sheet Beam Traveling-Wave Tubes. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2042-2047	4.1	5
72	A High-Power Sheet Beam Slow-Wave Structure of Traveling Wave Tubes. <i>IEEE Electron Device Letters</i> , 2021 , 42, 747-750	4.4	4
71	Design, Microfabrication, and Characterization of a Subterahertz-Band High-Order Overmoded Double-Staggered Grating Waveguide for Multiple-Sheet Electron Beam Devices. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 3021-3027	2.9	2
70	Microwave Measurement of a Compact Circular TE11 Mode Coupler Loaded With Ridges. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 359-363	2.9	
69	Continuous Wave Operation of a Ka-Band Broadband High-Power Sheet Beam Traveling-Wave Tube. <i>IEEE Electron Device Letters</i> , 2021 , 42, 1069-1072	4.4	6

68	Coaxial Control in Iteration Synthesis of Axis-Perturbed Mode Converter. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 1039-1042	2.6	1
67	Broadband and High Power Meta-Surface Dielectric Window for W-Band Gyrotron Traveling Wave Tubes. <i>IEEE Electron Device Letters</i> , 2021 , 42, 1386-1389	4.4	4
66	Design and Measurement of a Broadband Beryllium Oxide Window With High Power Handling Capability. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 4711-4716	2.9	О
65	Investigation of a Multibeam Magnetron Injection Gun for a W-Band Sectorial-Tunnel Gyro-TWT. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 5211-5214	2.9	
64	Influence of the Background Plasma on the Performance for X-Band Gyrotron Traveling Wave Tubes 2021 ,		2
63	Analysis of Phase Characteristics of Gyrotron Traveling-Wave Tubes. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 2170-2175	2.9	1
62	Design, Fabrication, and Cold Test of a High Frequency System for an H-Band Sheet Beam Travelling Wave Tube. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2020 , 10, 292-301	3.4	5
61	Electron Gun Thermal Depended Properties Analysis of a High-Power \${W}\$ -Band Sheet Beam Extended Oscillator. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 684-689	2.9	1
60	Wideband Rectangular TE10 to TE \$_{{{n}text{0}}}\$ Mode Converters for Terahertz-Band High-Order Overmoded Planar Slow-Wave Structures. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 1259-1265	2.9	3
59	Corrections to D esign and Measurement of a Broadband Compact TE11Mode Input Coupler for an X-Band Gyrotron Traveling Wave Tube <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 4641-4641	4.1	1
58	Millimetre-wave design and verification of a meta-surface dielectric window made of polytetrafluoroethylene in Ka- and Q-band. <i>IET Microwaves, Antennas and Propagation</i> , 2020 , 14, 2007-2	đ18	6
57	Analysis of the Synthesis Method for Broadband Oversized TE01-to-TE11 Mode Converter. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 620-627	4.1	4
56	Design and Measurement of a Broadband Compact TE11 Mode Input Coupler for an X-Band Gyrotron Traveling Wave Tube. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 4554-4	5 ⁴ 5 ⁵ 9	5
55	Terahertz ultrasensitive biosensing metamaterial and metasurface based on spoof surface plasmon polaritons. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2020 , 33, e2529	1	5
54	Proof-of-Principle Experiment of a 20-kW-Average-Power Ka-Band Gyro-Traveling Wave Tube With a Cut-Off Waveguide Section. <i>IEEE Electron Device Letters</i> , 2020 , 41, 769-772	4.4	7
53	PID Modeling and Experiment of the Hot Test of Gyrotron Traveling Wave Tubes. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 2812-2817	1.3	
52	Design of a High-Gain \$X\$ -Band Megawatt Gyrotron Traveling-Wave Tube. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 2818-2822	1.3	4
51	Design of a Broad-band Circular Waveguide TEP21 Mode Generator for Cold Test of Gyro-TWT 2019 ,		1

50	A microwave biosensor based on spoof surface plasmon polaritons for in vivo measurement of the water content of human skin tissues. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 205401	3	11
49	Design and Experiment of a High Average Power Ku-Band TE01 Mode Gyro-TWT. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 1559-1566	2.9	9
48	Design of a TE01-Mode Waveguide Bend Based on an Elliptical Waveguide Structure. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 906-914	4.1	8
47	Thermal Analysis of Micro-Channel Cooling for a Megawatt Gyrotron Travelling Wave Tube 2019 ,		2
46	Design and Millimeter-Wave Measurement of a Wideband Power Coupling Structure for Sheet Electron Beam Devices. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 3171-3177	2.9	7
45	Design and Test of Broadband Rectangular Waveguide TE10 to Circular Waveguide TE21 and TE01 Mode Converters. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 3573-3579	2.9	11
44	Experimental Study of a 6 kW W-band PCM Focused Sheet Beam EIO 2019 ,		7
43	High-Efficiency Study of an SBEIO Based on the SAA Optimization. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 4938-4942	2.9	2
42	Demonstration of a Planar \${{W}}\$ -Band, kW-Level Extended Interaction Oscillator Based on a Pseudospark-Sourced Sheet Electron Beam. <i>IEEE Electron Device Letters</i> , 2018 , 39, 432-435	4.4	46
41	Theoretical and Experimental Investigations on a Gaussian-Like Beam Output System for Ku-Band Gyro-TWT. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 1976-1981	2.9	1
40	Design and Experiment of a High Power and Broadband Ku-Band TE11 Mode Gyro-TWT. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 1962-1968	2.9	8
39	Experimental demonstration of a terahertz extended interaction oscillator driven by a pseudospark-sourced sheet electron beam. <i>Applied Physics Letters</i> , 2018 , 112, 033504	3.4	22
38	Automatic Hot-Test System for High Average/Continuous-Wave Power Gyro-TWTs. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 1139-1145	2.9	3
37	Terahertz backward wave radiation from the interaction of high-order mode and double sheet electron beams. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 055107	3	18
36	Initial Investigation on Diffractive-Wave Feedback Mechanism of Confocal Gyro-TWAs. <i>IEEE Electron Device Letters</i> , 2018 , 39, 436-439	4.4	5
35	. IEEE Transactions on Electron Devices, 2018, 65, 1535-1541	2.9	6
34	Curved Geometry Collector Design for High-Power Gyrotraveling Wave Tubes. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2327-2333	2.9	О
33	Broadband High-Efficiency Input Coupler With Mode Selectivity for a W-Band Confocal Gyro-TWA. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 1895-1901	4.1	5

(2016-2018)

32	Study of Performance Improvement for a \${Q}\$ -Band Sheet-Beam Traveling-Wave Tube. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 3970-3975	2.9	7	
31	Simulation study of a high-order mode terahertz radiation source based on an orthogonal grating waveguide and multiple sheet electron beams. <i>Optics Express</i> , 2018 , 26, 8040-8048	3.3	16	
30	Experimental Study on rf Circuits of Confocal Gyrotron Travelling-Wave Amplifiers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018 , 39, 749-760	2.2		
29	. IEEE Transactions on Electron Devices, 2018 , 65, 2340-2346	2.9	3	
28	Efficient Heat Dissipation Study of High-Power \${W}\$ -Band Sheet Beam Extended Interaction Oscillator. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 5075-5081	2.9	4	
27	Broadband and compact rectangular waveguide twist by using rigid waveguide. <i>Electronics Letters</i> , 2018 , 54, 835-837	1.1	4	
26	Terahertz biosensing metamaterial absorber for virus detection based on spoof surface plasmon polaritons. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21448	1.5	29	
25	Investigation on High Average Power Operations of Gyro-TWTs With Dielectric-Loaded Waveguide Circuits. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 3012-3018	2.9	13	
24	Simulation and Experiment of PID Applied to the Automatic Voltage Control of Gyrotron Traveling Wave Tubes. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 2446-2451	1.3	2	
23	Design and microwave measurement of a Ka-band HE11 mode corrugated horn for the Faraday rotator. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 75-80	1.6	6	
22	A W-Band TE12-Mode Input Converter With Nonuniform Bragg Cavities. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 649-653	1.3	4	
21	Automatic Hot Test of Gyrotron-Traveling Wave Tubes by Adaptive PID Feedback Control. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 1310-1314	2.9	6	
20	Broadband rectangular TE mode exciter with H-plane power dividers for 100 GHz confocal gyro-devices. <i>Review of Scientific Instruments</i> , 2017 , 88, 074701	1.7	4	
19	The PCM focused millimeter-wave sheet beam TWT 2017 ,		6	
18	A Millimeter Wave High-Order TE13 Mode Converter. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 2907-2911	2.9	8	
17	Design and Microwave Measurement of a Broadband Compact Power Coupler for Sheet Beam Traveling Wave Tubes. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 814-818	2.9	14	
16	Ultrawideband Coalesced-Mode Operation for a Sheet-Beam Traveling-Wave Tube. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 504-511	2.9	19	
15	A TE13 Mode Converter for High-Order Mode Gyrotron-Traveling-Wave Tubes. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 486-490	2.9	16	

14	Design and measurement of a TE13 input converter for high order mode gyrotron travelling wave amplifiers. <i>Physics of Plasmas</i> , 2016 , 23, 033101	2.1	5
13	An Improved Slow-Wave Structure for the Sheet-Beam Traveling-Wave Tube. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 2089-2096	2.9	9
12	. IEEE Transactions on Electron Devices, 2016 , 63, 3733-3739	2.9	7
11	Study of a High-Efficiency 34-GHz Sheet Beam Extended Interaction Oscillator With Low Filling Factor. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 4074-4080	2.9	23
10	Wideband Circular TE21 and TE01 Mode Converters With Same Exciting Topologies. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 4088-4095	2.9	19
9	. IEEE Transactions on Microwave Theory and Techniques, 2016 , 64, 4108-4116	4.1	15
8	RF Design, Thermal Analysis, and Cold Test of a Ku-Band Continuous Wave Sheet Beam Traveling Wave Tube. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 3844-3850	2.9	7
7	Design and microwave test of an ultrawideband input/output structure for sheet beam travelling wave tubes. <i>Review of Scientific Instruments</i> , 2015 , 86, 064703	1.7	7
6	1.2THz backward wave radiation generated by double bunched sheet beams 2015,		1
5	Design and experimental study of a broadband U-band TE01 gyrotron traveling wave tube 2015 ,		4
4	Theoretical analysis and design optimization of wideband input/output branch waveguide couplers for a sheet beam traveling wave tube. <i>Journal of Electromagnetic Waves and Applications</i> , 2015 , 29, 200	02 ⁻² 01:	3 ⁴
3	Comparative analysis on TM110-2Emode and TM110-Emode as the operating mode for W-band sheet beam klystron. <i>Journal of Electromagnetic Waves and Applications</i> , 2013 , 27, 1089-1099	1.3	2
2	Simulation of a G-band sheet beam backward wave oscillator with double staggered metallic rod array. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 345102	3	13
1	Design and Experiment of a Q-band Gyro-TWT Loaded With Lossy Dielectric. <i>IEEE Transactions on Flactron Devices</i> 2012 , 50, 3613, 3617	2.9	48