Rosa Letizia

List of Publications by Year
in descending order

96	599	840776 11	713466 21
papers	citations	h-index	g-index

97	97	97	401
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	D-band Transmission Hub for Point to MultiPoint Wireless Distribution. , 2021, , .		3
2	Sub-THz wireless system with electronic and optoelectronic transmitters. , 2021, , .		1
3	Experimental Validation of Phase Velocity and Interaction Impedance of Meander-Line Slow-Wave Structures for Space Traveling-Wave Tubes. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2148-2154.	4.6	7
4	Toward the first D-band Point to multipoint wireless system field test. , 2021, , .		0
5	Development of a<i>D</i>-Band Traveling Wave Tube for High Data-Rate Wireless Links. IEEE Transactions on Electron Devices, 2021, 68, 4675-4680.	3.0	7
6	Millimeter wave traveling wave tubes for the 21st Century. Journal of Electromagnetic Waves and Applications, 2021, 35, 567-603.	1.6	76
7	Investigation of gap waveguide-based slow wave structure for millimeter wave travelling wave tubes. , 2021, , .		2
8	Analysis of the Bottom Metal/Dielectric Supporting Plane in Meander Line Slow Wave Structures for Millimeter Wave Traveling Wave Tubes. , 2021, , .		0
9	Tolerance Analysis of Double Corrugated Waveguide for D-band TWT. , 2021, , .		0
10	Gap waveguides for millimeter wave slow wave structures. , 2021, , .		2
11	Pillared Meander Line Slow Wave Structure for W-band Traveling Wave Tubes. , 2021, , .		1
12	Low Cost Electron Gun for D-band Traveling Wave Tubes. , 2021, , .		5
13	Offset Double Corrugated Waveguide. , 2021, , .		2
14	D-band Point to Multi-Point Deployment with G-Band Transport. , 2020, , .		9
15	Technology, Assembly, and Test of a <i>W</i>-Band Traveling Wave Tube for New 5G High-Capacity Networks. IEEE Transactions on Electron Devices, 2020, 67, 2919-2924.	3.0	27
16	Optimization of PBG-Waveguides for Terahertz-Driven Electron Acceleration. IEEE Transactions on Plasma Science, 2020, 48, 1202-1209.	1.3	1
17	Quantitative video-rate hydration imaging of Nafion proton exchange membranes with terahertz radiation. Journal of Power Sources, 2020, 450, 227665.	7.8	14
18	Advancement in high capacity wireless distribution above 140 GHz. , 2020, , .		1

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19	Longâ€range millimetre wave wireless links enabled by travelling wave tubes and resonant tunnelling diodes. IET Microwaves, Antennas and Propagation, 2020, 14, 2110-2114.	1.4	2
20	TWTs for Point to Point D-band Wireless Links. , 2020, , .		0
21	3D Meander Line Slow Wave Structure for W-band TWT. , 2020, , .		1
22	Design and Microfabrication of a Double Corrugated Waveguide for G-band TWTs. , 2020, , .		0
23	On a D-band Traveling Wave Tube for Wireless Links. , 2020, , .		1
24	Front end for D-band High Data Rate Point to Point links. , 2020, , .		0
25	Novel Meander Line Slow Wave Structure for W-band TWT. , 2020, , .		1
26	Observing liquid water build-up in proton exchange membrane fuel cells using terahertz imaging and high-resolution optical gauging. , 2020, , .		0
27	Sub-THz Traveling Wave Tubes for Novel Wireless High Capacity Networks. , 2020, , .		0
28	Preliminary Study of a New Meander Line for W-band TWT. , 2019, , .		2
29	Design of Slow Wave Structure for G-band TWT for High Data Rate Links. , 2019, , .		1
30	Technology for D-band/G-band ultra capacity layer. , 2019, , .		9
31	Design of D-band Double Corrugated Waveguide TWT for Wireless Communications. , 2019, , .		8
32	Design and fabrication of a D-Band Traveling Wave Tube for millimeter wave communications. , 2019, , .		0
33	Large Signal Analysis of a New Meander Line Topology for W-band Traveling Wave Tubes. , 2019, , .		1
34	Quantitative video-rate hydration imaging of NafionÂ® proton exchange membranes with THz radiation. , 2019, , .		0
35	Sub-THz components for high capacity point to multipoint wireless networks. , 2019, , .		3
36	Long range millimeter wave wireless links enabled by traveling wave tubes and resonant tunnelling diodes. , 2019, , .		3

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37	Variable aperture horn antenna for millimeter wave wireless communications. , 2019, , .		0
38	Investigating liquid water distribution in Nafion polymer electrolyte membrane with terahertz imaging. , 2019, , .		0
39	Design of 71â€"76 GHz Double-Corrugated Waveguide Traveling-Wave Tube for Satellite Downlink. IEEE Transactions on Electron Devices, 2018, 65, 2195-2200.	3.0	33
40	Transmisson Hub and Terminals for Point to Multipoint W-Band Tweether System. , 2018, , .		8
41	Design of sub-THz traveling wave tubes for high data rate long range wireless links. Semiconductor Science and Technology, 2018, 33, 124009.	2.0	20
42	Mode Profile Shaping in Wire Media: Towards An Experimental Verification. Applied Sciences (Switzerland), 2018, 8, 1276.	2.5	2
43	Fabrication of a 0.346-THz BWO for Plasma Diagnostics. IEEE Transactions on Electron Devices, 2018, 65, 2156-2163.	3.0	27
44	W-band TWT for high capacity transmission hub for small cells backhaul. , 2018, , .		2
45	Customizing longitudinal electric field profiles using spatial dispersion in dielectric wire arrays. Optics Express, 2018, 26, 2478.	3.4	6
46	Effect of fabrication tolerance on 0.346 THz double corrugated waveguide for backward wave oscillators. , 2018, , .		0
47	Toward 100 Gbps wireless networks enabled by millimeter wave Traveling Wave Tubes. , 2018, , .		1
48	Electromagnetic mode profile shaping in waveguides. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	5
49	71â€"76 GHz traveling wave tube for high data rate satellite communication. , 2017, , .		1
50	Subwavelength mode profile customization using functional materials. Journal of Physics Communications, 2017, 1, 025003.	1.2	2
51	Fabrication of the 0.346 THz BWO for plasma diagnostic. , 2017, , .		1
52	UV-LIGA microfabrication of 0.3 THz double corrugated waveguide. , 2017, , .		4
53	Fabrication of W-band TWT for 5G small cells backhaul. , 2017, , .		10
54	Backward wave oscillator for high power generation at THz frequencies. , 2017, , .		1

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55	Photonic Crystal-Coupler for Sheet Beam THz Vacuum Electron Tubes. IEEE Electron Device Letters, 2016, 37, 1227-1230.	3.9	13
56	Comparison of couplers for 0.346 THz DCW-BWO. , 2016, , .		1
57	Progress in development of a 346GHz BWO. , 2016, , .		1
58	A traveling wave tube for 92â€“95 GHz band wireless applications. , 2016, , .		8
59	Photonic band gap corrugated slow wave structure for THz sheet-beam vacuum electron devices. , 2016, , .		0
60	Double corrugated waveguide 0.346 THz BWO with wide beam channel. , 2016, , .		0
61	Electromagnetic mode profile shaping in waveguides. , 2016, , .		1
62	THz Backward-Wave Oscillators for Plasma Diagnostic in Nuclear Fusion. IEEE Transactions on Plasma Science, 2016, 44, 369-376.	1.3	63
63	Millimeter wave wireless system based on point to multipoint transmissions. , 2016, , .		9
64	Design Considerations on Complementary Split Ring Resonator-Loaded Waveguides for Wakefield Generation. IEEE Transactions on Plasma Science, 2016, 44, 3281-3287.	1.3	2
65	Electron gun and CVD diamond window for a 346 GHz sheet beam BWO. , 2016, , .		1
66	High energy beam THz backward wave oscillator based on double corrugated waveguide. , 2016, , .		1
67	W-band TWTs for new generation high capacity wireless networks. , 2016, , .		10
68	Nanoscale Surface Roughness Effects on THz Vacuum Electron Device Performance. IEEE Nanotechnology Magazine, 2016, 15, 85-93.	2.0	57
69	Photonic bandgap coupler for 346 GHz sheet-beam BWO. , 2015, , .		1
70	Simulation of 0.346 THz double corrugated waveguide BWO. , 2015, , .		0
71	Design and fabrication of a sheet beam BWO at 346 GHz. , 2015, , .		6
72	THz backward-wave oscillators for plasma diagnostic in nuclear fusion. , 2015, , .		7

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73	Optimization studies on CSRR loaded waveguide for particle accelerator applications. , 2015, , .		0
74	Magnetic fusion energy plasma diagnostic needs novel THz BWOs. , 2015, , .		2
75	Nanoscale surface roughness effects on THz vacuum electron device performance. , 2015, , .		1
76	THz wakefield radiation generation via dielectric Bragg waveguide. , 2015, , .		0
77	Horizon 2020 TWEETHER project for W-band high data rate wireless communications. , 2015, , .		3
78	Electron beam excitation of a CSRR loaded waveguide for Cherenkov radiation. Proceedings of SPIE, 2015, , .	0.8	0
79	THz BWO based on photonic crystal corrugated waveguide. , 2015, , .		1
80	Photonic Crystal-Structures for THz Vacuum Electron Devices. IEEE Transactions on Electron Devices, 2015, 62, 178-183.	3.0	37
81	Investigation of CSRR loaded waveguide for accelerator applications. Journal of Instrumentation, 2014, 9, P11017-P11017.	1.2	6
82	346 GHz BWO for fusion plasma diagnostics. , 2014, , .		7
83	A fast interpolation approach for the calculation of permittivity and conductivity to estimate the SAR. , 2014, , .		0
84	Analysis of Nitrides- and TCOs-Based Plasmonic Waveguides for Slow-Wave and Negative Index Sub-Wavelength Propagation. Journal of Lightwave Technology, 2014, 32, 1578-1584.	4.6	2
85	THz backward wave oscillator based on PhC-wall corrugated waveguide. , 2014, , .		2
86	Slotted microcavity ring resonators for optical storage applications. Optical and Quantum Electronics, 2013, 45, 503-515.	3.3	0
87	Photonic crystals assisted slow wave structure for THz vacuum devices. , 2013, , .		2
88	Semiconductor-based THz plasmonic metamaterials. , 2013, , .		0
89	Tapered metallic Photonic Crystal slow wave structure for terahertz vacuum electron devices. , 2013, , .		1
90	New plasmonic material based split ring resonators for high frequency applications. , 2013, , .		0

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91	Efficient design of optical delay lines based on slottedâ€ring resonators. IET Optoelectronics, 2013, 7, 63-70.	3.3	0
92	Accurate Analysis of Plasmonic Devices With a New Drude Two Critical Points MRTD Method. IEEE Photonics Technology Letters, 2012, 24, 1587-1590.	2.5	3
93	Design considerations of microcavity ring resonators. IET Optoelectronics, 2011, 5, 158-164.	3.3	6
94	Design of a compact photonic crystal sensor. Optical and Quantum Electronics, 2011, 42, 463-472.	3.3	23
95	Efficient Second Harmonic Generation Through Selective Photonic Crystal-Microcavity Coupling. Journal of Lightwave Technology, 2009, 27, 4763-4772.	4.6	2
96	Efficient multiresolution time-domain analysis of arbitrarily shaped photonic devices. IET Optoelectronics, 2008, 2, 241-253.	3.3	7