

Alberto Leggieri

List of Publications by Year in descending order

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docs citations

42
times ranked

113
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiphysics Design of High-Power Microwave Vacuum Window. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2022, 21, 157-170.	0.7	2
2	Experimental Testing of the European TH1509U 170-GHz 1-MW CW Industrial Gyrotronâ€™Long Pulse Operation. IEEE Electron Device Letters, 2022, 43, 623-626.	3.9	10
3	Optimization of the flow distribution in a gyrotron cavity using evolutionary CFD simulations driven by a genetic algorithm. International Journal of Heat and Fluid Flow, 2022, 96, 108987.	2.4	1
4	A low-perveance electron gun for a high-efficiency Ka-band klystron. European Physical Journal Plus, 2022, 137, .	2.6	3
5	Towards a 1.5 MW, 140 GHz gyrotron for the upgraded ECRH system at W7-X. Fusion Engineering and Design, 2021, 164, 112173.	1.9	12
6	A New Lumped Approach for the Simulation of the Magnetron Injection Gun for MegaWatt-Class EU Gyrotrons. Energies, 2021, 14, 2068.	3.1	1
7	The Ka-band high power klystron amplifier design program of INFN. Vacuum, 2021, 191, 110377.	3.5	7
8	Relativistic versus Nonrelativistic Approaches to a Low Perveance High Quality Matched Beam for a High Efficiency Ka-Band Klystron. Instruments, 2021, 5, 33.	1.8	2
9	A Validation Roadmap of Multi-Physics Simulators of the Resonator of MW-Class CW Gyrotrons for Fusion Applications. Energies, 2021, 14, 8027.	3.1	7
10	Test and Modeling of the Hydraulic Performance of High-Efficiency Cooling Configurations for Gyrotron Resonance Cavities. Energies, 2020, 13, 1163.	3.1	8
11	From W7-X Towards ITER and Beyond: 2019 Status on EU Fusion Gyrotron Developments. , 2019, , .		2
12	Manufacturing and Test of the 1 MW Long-Pulse 84/126 GHz Dual-Frequency Gyrotron for TCV. , 2019, , .		8
13	THALES TH1507 140 GHz 1 MW CW Gyrotron for W7-X Stellarator. , 2019, , .		5
14	Metrology techniques for the verification of the alignment of the EU gyrotron prototype for ITER. EPJ Web of Conferences, 2019, 203, 04015.	0.3	2
15	Small Size, High Power Density, Solid State Amplifiers for Space Application. , 2018, , .		1
16	Innovative Transition for Wideband Spatial Combiners. , 2018, , .		0
17	Design, Test and Analysis of a Gyrotron Cavity Mock-Up Cooled Using Mini Channels. IEEE Transactions on Plasma Science, 2018, 46, 2207-2215.	1.3	5
18	Design of High Power Density Amplifiers: Application to Ka Band. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1252-1263.	2.2	10

#	ARTICLE	IF	CITATIONS
19	European research activities towards a future DEMO gyrotron. EPJ Web of Conferences, 2017, 149, 04007.	0.3	3
20	Nano Energy Harvesting with Plasmonic Nano-Antennas: A review of MID-IR Rectenna and Application. Advanced Electromagnetics, 2017, 6, 1.	1.0	15
21	New Six-Way Waveguide to Microstrip Transition applied in X Band Spatial Power Combiner. Advanced Electromagnetics, 2017, 6, 42-44.	1.0	12
22	The next generation: miniaturized objects, self powered using nanostructures to harvest ambient energy. , 2016, , .		1
23	A true-time-delay networks design technique. International Journal of Microwave and Wireless Technologies, 2016, 8, 155-164.	1.9	1
24	Reference dosimetry for IOERT dedicated mobile linacs: How do we apply international dosimetric protocols?. Physica Medica, 2016, 32, 13.	0.7	0
25	Real-Time Beam Monitor for Charged Particle Medical Accelerators. IEEE Transactions on Nuclear Science, 2016, 63, 869-877.	2.0	9
26	Sensory Glove and Surface EMG with Suitable Conditioning Electronics for Extended Monitoring and Functional Hand Assessment. , 2016, , .		4
27	Broadband TE ₁₀ to TE ₂₀ Mode Transformer for X Band. Advanced Electromagnetics, 2016, 5, 69.	1.0	4
28	Computational Model of a Buncher Cavity for Millimetric Klystron. , 2015, , .		3
29	Analysis and Design of a GaAs Monolithic Tunable Polyphase Filter in S/C Bands. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2015, 14, 14-27.	0.7	3
30	Advanced design of a low energy electron source. , 2015, , .		1
31	Injection/bunching section design of a Sub-millimetric klystron. , 2015, , .		0
32	Design of a sub-millimetric electron gun with analysis of thermomechanical effects on beam dynamics. Vacuum, 2015, 122, 103-116.	3.5	13
33	A Novel Automatic Method to Determine Blood Pressure Based on Thresholds of Audibility. British Journal of Applied Science & Technology, 2015, 7, 364-371.	0.2	3
34	Multiphysics modeling based design of a key-holes magnetron. , 2014, , .		8
35	Multiphysics design of a spatial combiner predisposed for thermo-mechanically affected operation. Journal of Electromagnetic Waves and Applications, 2014, 28, 2153-2168.	1.6	7
36	Multiphysics Design of a Magnetron High Power Transfer System. , 2014, , .		3

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37	High Efficiency Ka-Band Spatial Combiner. Advanced Electromagnetics, 2014, 3, 10.	1.0	8
38	Sensor Reduction on EMG-based Hand Gesture Classification. , 2014, , .		1
39	Particle tracing simulation of a vacuum electron gun for THz application. , 2013, , .		3
40	THE SQUARAX SPATIAL POWER COMBINER. Progress in Electromagnetics Research C, 2013, 45, 43-55.	0.9	8
41	Global Design of a Waveguide X-Band Power Amplifier. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	3
42	Magnetron High Power System Design. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	1