Santiago Cogollos

List of Publications by Year
in descending order

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73	660	759233 12	677142 22
papers	citations	h-index	g-index

75	75	75	392
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Compact Dual-Band and Wideband Filters With Resonant Apertures in Rectangular Waveguide. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3125-3140.	4.6	9
2	Inductive Cascaded Quadruplet With Diagonal Cross-Coupling in Rectangular Waveguide. IEEE Access, 2022, 10, 45241-45255.	4.2	2
3	Enhancing the Out-of-Band Response of Hybrid Wide-Band Filters in Rectangular Waveguide. , 2021, , .		6
4	Inline Combline Filters of Order N With up to N + 1 Transmission Zeros. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3287-3297.	4.6	7
5	Hybrid Wideband Staircase Filters in Rectangular Waveguide With Enhanced Out-of-Band Response. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3783-3796.	4.6	7
6	Dual-Band Filters in Rectangular Waveguide Based on Resonant Apertures. , 2021, , .		5
7	Compact Wideband Hybrid Filters in Rectangular Waveguide With Enhanced Out-of-Band Response. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 87-101.	4.6	25
8	Transition from Microstrip Line to Ridge Empty Substrate Integrated Waveguide Based on the Equations of the Superellipse. Applied Sciences (Switzerland), 2020, 10, 8101.	2.5	4
9	A New Family of Multiband Waveguide Filters Based on a Folded Topology. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2590-2600.	4.6	13
10	Waveguide Quadruplet Diplexer for Multi-Beam Satellite Applications. IEEE Access, 2020, 8, 110116-110128.	4.2	9
11	On Space Mapping Techniques for Microwave Filter Tuning. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4860-4870.	4.6	36
12	Rectangular Waveguide Quadruplet Filter for Satellite Applications. , 2019, , .		5
13	Optimized Design of Combline Filters with Transmission Zeros. , 2019, , .		1
14	A Flexible Design Technique for Band-pass Coupled-line Planar Filters Overcoming Manufacturing Limitations. , 2019, , .		0
15	Improvements in Broadband Modeling of Microwave Circuits using Rational Models. , 2019, , .		0
16	Novel Planar and Waveguide Implementations of Impedance Matching Networks Based on Tapered Lines Using Generalized Superellipses. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1874-1884.	4.6	15
17	Efficient Design Procedure of OMUX Satellite Channel Filters using Full-Wave Numerical Methods. , 2018, , .		1
18	Design of advanced waveguide filters for passive intermodulation measurement setups. , 2017, , .		2

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19	Waveguide band-pass filter with reduced sensitivity to fabrication tolerances for Q-band payloads. , 2017, , .		12
20	New design method of impedance matching networks based on tapered lines using generalized superellipses. , 2017, , .		1
21	Enhancing the performance of stepped impedance resonator filters in rectangular waveguide. , 2017, , .		8
22	New design methodology for multiband waveguide filters based on multiplexing techniques. , 2017, , .		5
23	Compensation of the impact of lowâ€cost manufacturing techniques in the design of Eâ€plane multiport waveguide junctions. Radio Science, 2016, 51, 619-628.	1.6	2
24	Correction of manufacturing deviations in waveguide filters and manifold multiplexers using metal insertions. International Journal of Microwave and Wireless Technologies, 2015, 7, 219-227.	1.9	6
25	Practical design of rectangular waveguide filters with a capacitive building block providing an extra transmission zero. , 2015, , .		8
26	Efficient Design of Waveguide Manifold Multiplexers Based on Low-Order EM Distributed Models. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2540-2549.	4.6	23
27	Design of compensated multiport waveguide junctions considering mechanization effects. AEU - International Journal of Electronics and Communications, 2015, 69, 328-331.	2.9	7
28	High selective Hâ€plane TE dual mode cavity filter design by using nonresonating nodes. Microwave and Optical Technology Letters, 2014, 56, 161-166.	1.4	1
29	Novel rectangular waveguide structures for advanced filter characteristics. , 2014, , .		9
30	Fast synthesis of microwave devices with arbitrary frequency responses and smooth profiles. , 2014, , .		0
31	Correction of manufacturing deviations in circular-waveguide dual-mode filters using aggressive space mapping. , 2014, , .		10
32	Design of waveguide manifold multiplexers with dual-mode filters using distributed models. , 2014, , .		4
33	Efficient boundary integralâ€resonant mode expansion method implementation for fullâ€wave analysis of passive devices based on circular waveguides with arbitrary perturbations. IET Microwaves, Antennas and Propagation, 2013, 7, 44-53.	1.4	1
34	Evaluation of time domain electromagnetic fields radiated by constant velocity moving particles traveling along an arbitrarily shaped crossâ€section waveguide using frequency domain Green's functions. Radio Science, 2012, 47, .	1.6	3
35	Generalized short step transformers for multi-band impedance matching. , 2012, , .		5
36	A Systematic Design Procedure of Classical Dual-Mode Circular Waveguide Filters Using an Equivalent Distributed Model. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 1006-1017.	4.6	37

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37	Distributed Models for Filter Synthesis. IEEE Microwave Magazine, 2011, 12, 87-100.	0.8	6
38	New distributed model for synthesis of classical dual mode filters. , 2010, , .		0
39	New distributed model for synthesis of classical dual mode filters. , 2010, , .		2
40	Design of Ultra-Wideband Substrate Integrated Waveguide (SIW) Filters in Zigzag Topology. IEEE Microwave and Wireless Components Letters, 2009, 19, 281-283.	3.2	49
41	Efficient and accurate computation of Green's function for the Poisson equation in rectangular waveguides. Radio Science, 2009, 44, .	1.6	0
42	Design procedure of low cost substrate microstrip filters based on nonresonating nodes. , 2008, , .		8
43	Synthesis and Design Procedure for High Performance Waveguide Filters Based on Nonresonating Nodes. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	25
44	Recent advances in modeling, design, and fabrication of microwave filters for space applications. International Journal of RF and Microwave Computer-Aided Engineering, 2007, 17, 70-76.	1.2	2
45	Efficient and Accurate Consideration of Ohmic Losses in Waveguide Diplexers and Multiplexers. , 2006, , .		1
46	Efficient Pole Expansion of the Generalized Impedance Matrix Representation for Planar Waveguide Junctions. , 2006, , .		1
47	CAD of complex passive devices composed of arbitrarily shaped waveguides using Nystro/spl uml/m and BI-RME methods. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 2153-2163.	4.6	12
48	Fast automated design of waveguide filters using aggressive space mapping with a new segmentation strategy and a hybrid optimization algorithm. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1130-1142.	4.6	60
49	Accurate consideration of metal losses at waveguide junctions using admittance and impedance integral equation formulations. Radio Science, 2005, 40, n/a-n/a.	1.6	3
50	Efficient automated design of H plane filters with rounded corners using ASM with a segmentation strategy and hybrid optimization techniques. , 2004, , .		3
51	<title>Efficient coupling integrals computation of waveguide step discontinuities using BI-RME and Nystrom methods</title>. , 2004, , .		0
52	Direct computation of the admittance parameters of a cubic junction with arbitrarily shaped access ports using the BIâ€“RME method. IET Microwaves Antennas and Propagation, 2003, 150, 111.	1.2	5
53	Efficient modal analysis of arbitrarily shaped waveguides composed of linear, circular, and elliptical arcs using the BI-RME method. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 2378-2390.	4.6	45
54	Efficient analysis of in-line waveguide filters and frequency-selective surfaces with stepped holes. International Journal of RF and Microwave Computer-Aided Engineering, 2003, 13, 306-315.	1.2	6

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55	A rigorous and efficient full-wave analysis of uniform bends in rectangular waveguide under arbitrary incidence. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 397-405.	4.6	19
56	Teaching of wave propagation phenomena using MATLAB GUIs at the Universidad Politecnica of Valencia. IEEE Antennas and Propagation Magazine, 2003, 45, 140-143.	1.4	11
57	Efficient Full-wave Modal Analysis of Arbitrarily Shaped Waveguides using BI-RME and Nystr?m Methods. , 2003, , .		1
58	A new hybrid mode-matching/numerical method for the analysis of arbitrarily shaped inductive obstacles and discontinuities in rectangular waveguides. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 1219-1224.	4.6	49
59	Efficient CAD Tool for Inductively Coupled Rectangular Waveguide Filters with Rounded Corners. , 2001, , .		12
60	Efficient analysis of general waveguide multi-port junctions using a segmentation technique and hybrid matrix formulations. Annales Des Telecommunications/Annals of Telecommunications, 2001, 56, 94-103.	2.5	2
61	Characterization of complex permittivity properties of materials in rectangular waveguides using a hybrid iterative method. , 2000, 10, 186-188.		13
62	Efficient analysis of cubic junction of rectangular waveguides using admittance-matrix representation. IET Microwaves Antennas and Propagation, 2000, 147, 417.	1.2	10
63	Efficient waveguide mode computation using wavelet-like basis functions. , 0, , .		0
64	A new hybrid mode-matching method for the analysis of inductive obstacles and discontinuities. , 0, , .		1
65	Characterization of complex dielectric properties of materials using a hybrid iterative method. , 0, , .		0
66	A new analytical method for the analysis of multiple scattering problems using spectral techniques. , 0, , .		4
67	Efficient analysis of waveguide filters by the integral equation technique and the BI-RME method. , 0, , .		0
68	Teaching of wave propagation phenomena using Matlab GUIs at the Universidad Politecnica of Valencia. , 0, , .		1
69	Modal computation of arbitrary waveguides composed of linear, circular and elliptical arcs. , 0, , .		8
70	Efficient full-wave modal analysis of arbitrarily shaped waveguides using BI-RME and Nystrom methods. , 0, , .		1
71	Automated design of waveguide filters using Aggressive Space Mapping with a segmentation strategy and hybrid optimization techniques. , 0, , .		7
72	On the Rigorous Calculation of All Ohmic Losses in Rectangular Waveguide Multi-Port Junctions. , 0, , .		2

#	Article	IF	Citations
73	Accurate Consideration of Ohmic Losses in Passive Waveguide Circuits for Microwave and Millimeter-wave Applications. , 0, , .		1