Carmen Bachiller

List of Publications by Year
in descending order

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42	309	933447 10	996975 15
papers	citations	h-index	g-index

43	43	43	236
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study of Vibration Effects on Communication Filters in Substrate Integrated Technologies. IEEE Access, 2022, 10, 50418-50426.	4.2	2
2	Compact C-band Wilkinson Power Divider in Empty Substrate Integrated Coaxial Line. , 2022, , .		0
3	Thermal Stability Analysis of Filters in Substrate Integrated Technologies Under Atmospheric Pressure and Vacuum Conditions. IEEE Access, 2020, 8, 118072-118082.	4.2	5
4	Characterization of Nematic Liquid Crystals at Microwave Frequencies. Crystals, 2020, 10, 1106.	2.2	8
5	Characterization of Nematic Liquid Crystal at Microwave Frequencies Using Split-Cylinder Resonator Method. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2812-2820.	4.6	12
6	Controlled Out-of-Band Rejection of Filters Based on SIW With Alternating Dielectric Line Sections. IEEE Microwave and Wireless Components Letters, 2019, 29, 258-260.	3.2	0
7	Reconfigurable resonator in decoupled empty SIW technology using liquid crystal material. Electronics Letters, 2019, 55, 907-910.	1.0	3
8	Conceptual Model for the Replacement of the Horn of a Nineteenth Century Phonograph. Studies in Conservation, 2019, 64, 240-248.	1.1	2
9	Miniaturization of Power Divider and 90Â° Hybrid Directional Coupler for C-Band Applications Using Empty Substrate-Integrated Coaxial Lines. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3055-3062.	4.6	12
10	Microwave Filter Based on Substrate Integrated Waveguide With Alternating Dielectric Line Sections. IEEE Microwave and Wireless Components Letters, 2018, 28, 990-992.	3.2	16
11	Improved Low Reflection Transition From Microstrip Line to Empty Substrate-Integrated Waveguide. IEEE Microwave and Wireless Components Letters, 2017, 27, 685-687.	3.2	50
12	New decoupled empty substrate integrated waveguide realisation. Electronics Letters, 2017, 53, 1203-1205.	1.0	5
13	Radioâ€frequency performance comparison of several H â€plane rectangular waveguide filters loaded with circular dielectric posts. IET Microwaves, Antennas and Propagation, 2016, 10, 536-545.	1.4	12
14	Analysis and design of passive microwave components in substrate integrated waveguide technology. , 2015, , .		3
15	Hybrid mode matching method for the efficient analysis of rods in waveguided structures. Mathematical and Computer Modelling, 2013, 57, 1832-1839.	2.0	1
16	Study of the Interference Affecting the Performance of the Theremin. International Journal of Antennas and Propagation, 2012, 2012, 1-9.	1.2	4
17	Improvement for the design equations for tapered Microstrip-to-Substrate Integrated Waveguide transitions. , 2011, , .		11
18	Hybrid Technique Plus Fast Frequency Sweep for the Efficient and Accurate Analysis of Substrate Integrated Waveguide Devices. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 552-560.	4.6	20

#	Article	IF	Citations
19	Hybrid Mode Matching and Method of Moments Method for the Full-Wave Analysis of Arbitrarily Shaped Structures Fed Through Canonical Waveguides Using Only Electric Currents. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 537-544.	4.6	12
20	Hybrid Mode Matching Method for the Efficient Analysis of Metal and Dielectric Rods in H Plane Rectangular Waveguide Devices. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	4.6	10
21	Embedding Communication and Electronic Engineering Studies in a Local and Global Society. , 2010, , .		0
22	Highly Efficient Grouping Strategy for the Analysis of Two-Port Arbitrarily Shaped H-Plane Waveguide Devices. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 352-360.	4.6	0
23	Efficient modal analysis of arbitrarily shaped H-plane two-port waveguide devices using the 2D parallel-plate Green's function. IET Microwaves, Antennas and Propagation, 2009, 3, 62.	1.4	2
24	Optimization techniques for the efficient design of low-cost satellite filters considering new light materials. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 168-175.	1.2	5
25	Online application for representation of the radiation pattern of antenna arrays. IEEE Antennas and Propagation Magazine, 2008, 50, 198-201.	1.4	1
26	Automated design of complex waveguide filters for space systems: A case study. International Journal of RF and Microwave Computer-Aided Engineering, 2007, 17, 84-89.	1.2	10
27	Efficient Technique for the Cascade Connection of Multiple Two-Port Scattering Matrices. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1880-1886.	4.6	26
28	New efficient and robust automated design strategy for H plane direct-coupled-cavities filters with dielectric resonators. , 2006, , .		7
29	Teaching of advanced wave-propagation phenomena in open-space problems and waveguide devices using MATLAB GUIs. IEEE Antennas and Propagation Magazine, 2006, 48, 128-131.	1.4	8
30	CAD of evanescent mode waveguide filters with circular dielectric resonators. , 2006, , .		14
31	New multimodel aggressive space mapping technique for the efficient design of complex microwave circuits. , 2005, , .		2
32	Efficient CAD tool of direct-coupled-cavities filters with dielectric resonators. , 2005, , .		9
33	Multipaction modelling of low-cost H-plane filters using an electromagnetic field analysis tool. , 2004, , .		2
34	Efficient automated design of H plane filters with rounded corners using ASM with a segmentation strategy and hybrid optimization techniques. , 2004, , .		3
35	Efficient and accurate spectral analysis of large scattering problems using wavelet and wavelet-like bases. Radio Science, 2004, 39, n/a-n/a.	1.6	4
36	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

#	Article	IF	Citations
37	Enhanced B-Spline interpolation of images. , 0, , .		3
38	OMNI-open model for network-wide heterogeneous intersection-based transport management. , 0, , .		0
39	A new analytical method for the analysis of multiple scattering problems using spectral techniques. , 0, , .		4
40	Highly efficient MoM analysis of conducting 2-D scatterers using wavelet basis functions. , 0, , .		0
41	Automated design of waveguide filters using Aggressive Space Mapping with a segmentation strategy and hybrid optimization techniques. , 0, , .		7
42	Computation of the scattering of electrically large 2-D objects using FMM with TE>sup<z>/sup<incidence. , 0, , .		0