

Santiago Cogollos

List of Publications by Year in descending order

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73
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660
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759233

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677142

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75
docs citations

75
times ranked

392
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | On Space Mapping Techniques for Microwave Filter Tuning. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4860-4870. | 4.6 | 36 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Characterization of complex permittivity properties of materials in rectangular waveguides using a hybrid iterative method. , 2000, 10, 186-188. | | 13 |
| 13 | 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 |
| 14 | Efficient CAD Tool for Inductively Coupled Rectangular Waveguide Filters with Rounded Corners. , 2001, , . | | 12 |
| 15 | CAD of complex passive devices composed of arbitrarily shaped waveguides using Nyströ/spl uml/m and BI-RME methods. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 2153-2163. | 4.6 | 12 |
| 16 | Waveguide band-pass filter with reduced sensitivity to fabrication tolerances for Q-band payloads. , 2017, , . | | 12 |
| 17 | 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 |
| 18 | Efficient analysis of cubic junction of rectangular waveguides using admittance-matrix representation. IET Microwaves Antennas and Propagation, 2000, 147, 417. | 1.2 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Correction of manufacturing deviations in circular-waveguide dual-mode filters using aggressive space mapping. , 2014, , . | | 10 |
| 20 | Novel rectangular waveguide structures for advanced filter characteristics. , 2014, , . | | 9 |
| 21 | Waveguide Quadruplet Diplexer for Multi-Beam Satellite Applications. IEEE Access, 2020, 8, 110116-110128. | 4.2 | 9 |
| 22 | 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 |
| 23 | Modal computation of arbitrary waveguides composed of linear, circular and elliptical arcs. , 0, , . | | 8 |
| 24 | Design procedure of low cost substrate microstrip filters based on nonresonating nodes. , 2008, , . | | 8 |
| 25 | Practical design of rectangular waveguide filters with a capacitive building block providing an extra transmission zero. , 2015, , . | | 8 |
| 26 | Enhancing the performance of stepped impedance resonator filters in rectangular waveguide. , 2017, , . | | 8 |
| 27 | Automated design of waveguide filters using Aggressive Space Mapping with a segmentation strategy and hybrid optimization techniques. , 0, , . | | 7 |
| 28 | Design of compensated multiport waveguide junctions considering mechanization effects. AEU - International Journal of Electronics and Communications, 2015, 69, 328-331. | 2.9 | 7 |
| 29 | Inline Comblne 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Distributed Models for Filter Synthesis. IEEE Microwave Magazine, 2011, 12, 87-100. | 0.8 | 6 |
| 33 | 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 |
| 34 | Enhancing the Out-of-Band Response of Hybrid Wide-Band Filters in Rectangular Waveguide. , 2021, , . | | 6 |
| 35 | Direct computation of the admittance parameters of a cubic junction with arbitrarily shaped access ports using the Blå€RME method. IET Microwaves Antennas and Propagation, 2003, 150, 111. | 1.2 | 5 |
| 36 | Generalized short step transformers for multi-band impedance matching. , 2012, , . | | 5 |

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|----|--|-----|-----------|
| 37 | New design methodology for multiband waveguide filters based on multiplexing techniques. , 2017, , . | | 5 |
| 38 | Rectangular Waveguide Quadruplet Filter for Satellite Applications. , 2019, , . | | 5 |
| 39 | Dual-Band Filters in Rectangular Waveguide Based on Resonant Apertures. , 2021, , . | | 5 |
| 40 | A new analytical method for the analysis of multiple scattering problems using spectral techniques. , 0, , . | | 4 |
| 41 | Design of waveguide manifold multiplexers with dual-mode filters using distributed models. , 2014, , . | | 4 |
| 42 | 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 |
| 43 | Efficient automated design of H plane filters with rounded corners using ASM with a segmentation strategy and hybrid optimization techniques. , 2004, , . | | 3 |
| 44 | 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 |
| 45 | Evaluation of time domain electromagnetic fields radiated by constant velocity moving particles traveling along an arbitrarily shaped cross-section waveguide using frequency domain Green's functions. Radio Science, 2012, 47, . | 1.6 | 3 |
| 46 | 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 |
| 47 | On the Rigorous Calculation of All Ohmic Losses in Rectangular Waveguide Multi-Port Junctions. , 0, , . | | 2 |
| 48 | 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 |
| 49 | New distributed model for synthesis of classical dual mode filters. , 2010, , . | | 2 |
| 50 | Compensation of the impact of low-cost manufacturing techniques in the design of E-plane multipoint waveguide junctions. Radio Science, 2016, 51, 619-628. | 1.6 | 2 |
| 51 | Design of advanced waveguide filters for passive intermodulation measurement setups. , 2017, , . | | 2 |
| 52 | Inductive Cascaded Quadruplet With Diagonal Cross-Coupling in Rectangular Waveguide. IEEE Access, 2022, 10, 45241-45255. | 4.2 | 2 |
| 53 | A new hybrid mode-matching method for the analysis of inductive obstacles and discontinuities. , 0, , . | | 1 |
| 54 | Teaching of wave propagation phenomena using Matlab GUIs at the Universidad Politecnica of Valencia. , 0, , . | | 1 |

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|----|--|-----|-----------|
| 55 | Efficient Full-wave Modal Analysis of Arbitrarily Shaped Waveguides using BI-RME and Nyström Methods. , 2003, , . | | 1 |
| 56 | Efficient full-wave modal analysis of arbitrarily shaped waveguides using BI-RME and Nystrom methods. , 0, , . | | 1 |
| 57 | Accurate Consideration of Ohmic Losses in Passive Waveguide Circuits for Microwave and Millimeter-wave Applications. , 0, , . | | 1 |
| 58 | Efficient and Accurate Consideration of Ohmic Losses in Waveguide Diplexers and Multiplexers. , 2006, , . | | 1 |
| 59 | Efficient Pole Expansion of the Generalized Impedance Matrix Representation for Planar Waveguide Junctions. , 2006, , . | | 1 |
| 60 | 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 |
| 61 | High selective <i>H</i>-plane TE dual mode cavity filter design by using nonresonating nodes. Microwave and Optical Technology Letters, 2014, 56, 161-166. | 1.4 | 1 |
| 62 | New design method of impedance matching networks based on tapered lines using generalized superellipses. , 2017, , . | | 1 |
| 63 | Efficient Design Procedure of OMUX Satellite Channel Filters using Full-Wave Numerical Methods. , 2018, , . | | 1 |
| 64 | Optimized Design of Compline Filters with Transmission Zeros. , 2019, , . | | 1 |
| 65 | Efficient waveguide mode computation using wavelet-like basis functions. , 0, , . | | 0 |
| 66 | Characterization of complex dielectric properties of materials using a hybrid iterative method. , 0, , . | | 0 |
| 67 | Efficient analysis of waveguide filters by the integral equation technique and the BI-RME method. , 0, , . | | 0 |
| 68 | <title>Efficient coupling integrals computation of waveguide step discontinuities using BI-RME and Nystrom methods</title>. , 2004, , . | | 0 |
| 69 | Efficient and accurate computation of Green's function for the Poisson equation in rectangular waveguides. Radio Science, 2009, 44, . | 1.6 | 0 |
| 70 | New distributed model for synthesis of classical dual mode filters. , 2010, , . | | 0 |
| 71 | Fast synthesis of microwave devices with arbitrary frequency responses and smooth profiles. , 2014, , . | | 0 |
| 72 | A Flexible Design Technique for Band-pass Coupled-line Planar Filters Overcoming Manufacturing Limitations. , 2019, , . | | 0 |

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|----|---|----|-----------|
| 73 | Improvements in Broadband Modeling of Microwave Circuits using Rational Models. , 2019, , . | | 0 |