Marco Guglielmi

List of Publications by Year in descending order

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257101 264894 2,691 164 24 citations h-index papers

g-index 164 164 164 1152 docs citations times ranked citing authors all docs

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| 1 | New microstrip "Wiggly-Line" filters with spurious passband suppression. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 1593-1598. | 2.9 | 239 |
| 2 | A new family of all-inductive dual-mode filters. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 1764-1769. | 2.9 | 142 |
| 3 | Broadside radiation from periodic leaky-wave antennas. IEEE Transactions on Antennas and Propagation, 1993, 41, 31-37. | 3.1 | 130 |
| 4 | Microstrip "wiggly-line" bandpass filters with multispurious rejection. IEEE Microwave and Wireless Components Letters, 2004, 14, 531-533. | 2.0 | 108 |
| 5 | Real-time spectrum analysis in microstrip technology. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 705-717. | 2.9 | 90 |
| 6 | Simple CAD procedure for microwave filters and multiplexers. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 1347-1352. | 2.9 | 86 |
| 7 | Multimode network description of a planar periodic metal-strip grating at a dielectric interface. I. Rigorous network formulations. IEEE Transactions on Microwave Theory and Techniques, 1989, 37, 534-541. | 2.9 | 70 |
| 8 | A novel theory for dielectric-inset waveguide leaky-wave antennas. IEEE Transactions on Antennas and Propagation, 1991, 39, 497-504. | 3.1 | 66 |
| 9 | Implementing transmission zeros in inductive-window bandpass filters. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 1911-1915. | 2.9 | 59 |
| 10 | Efficient integral equation formulations for admittance or impedance representation of planar waveguide junctions. , 0, , . | | 56 |
| 11 | A new multiple-tuned six-port riblet-type directional coupler in rectangular waveguide. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1441-1448. | 2.9 | 52 |
| 12 | Chirped delay lines in microstrip technology. IEEE Microwave and Wireless Components Letters, 2001, 11, 486-488. | 2.0 | 45 |
| 13 | Experimental Investigation of Dual-Mode Microstrip Ring Resonators. , 1990, , . | | 44 |
| 14 | Efficient CAD of boxed microwave circuits based on arbitrary rectangular elements. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 1045-1058. | 2.9 | 43 |
| 15 | A fast integral equation technique for shielded planar circuits defined on nonuniform meshes. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 2293-2296. | 2.9 | 42 |
| 16 | Rigorous multimode network numerical representation of inductive step. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 317-326. | 2.9 | 41 |
| 17 | Dual-mode circular waveguide filters without tuning screws. , 1992, 2, 457-458. | | 40 |
| 18 | Multipactor Effect Characterization of Dielectric Materials for Space Applications. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3644-3655. | 2.9 | 39 |

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| 19 | Multimode network description of a planar periodic metal-strip grating at a dielectric interface. III. Rigorous solution. IEEE Transactions on Microwave Theory and Techniques, 1989, 37, 902-909. | 2.9 | 38 |
| 20 | 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. | 2.9 | 37 |
| 21 | On Space Mapping Techniques for Microwave Filter Tuning. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4860-4870. | 2.9 | 36 |
| 22 | New simple procedure for the computation of the multimode admittance or impedance matrix of planar waveguide junctions. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 413-418. | 2.9 | 30 |
| 23 | CAD of triple-mode cavities in rectangular waveguide. , 1998, 8, 339-341. | | 30 |
| 24 | Rigorous, multimode equivalent network representation of inductive discontinuities. IEEE Transactions on Microwave Theory and Techniques, 1990, 38, 1651-1659. | 2.9 | 29 |
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| 26 | Two compact configurations for implementing transmission zeros in microstrip filters. IEEE Microwave and Wireless Components Letters, 2004, 14, 475-477. | 2.0 | 29 |
| 27 | Chained function filters., 1997, 7, 390-392. | | 27 |
| 28 | Design of Compact Wideband Manifold-Coupled Multiplexers. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3398-3407. | 2.9 | 27 |
| 29 | High-Performance Compact Diplexers for Ku/K-Band Satellite Applications. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3866-3876. | 2.9 | 27 |
| 30 | MoM/BI-RME analysis of boxed MMICs with arbitrarily shaped metallizations. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 2227-2234. | 2.9 | 26 |
| 31 | Compact Wideband Hybrid Filters in Rectangular Waveguide With Enhanced Out-of-Band Response. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 87-101. | 2.9 | 25 |
| 32 | On the Alignment of Low-Fidelity and High- Fidelity Simulation Spaces for the Design of Microwave Waveguide Filters. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5183-5196. | 2.9 | 24 |
| 33 | Multimode equivalent network representation for H- and E-plane uniform bends in rectangular waveguide. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 1679-1687. | 2.9 | 23 |
| 34 | Full wave network representation for rectangular, circular, and elliptical to elliptical waveguide junctions. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 376-384. | 2.9 | 23 |
| 35 | Efficient Design of Waveguide Manifold Multiplexers Based on Low-Order EM Distributed Models. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2540-2549. | 2.9 | 23 |
| 36 | Novel design procedure for microwave filters. , 1993, , . | | 21 |

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| 37 | Exploring the Tuning Range of Channel Filters for Satellite Applications Using Electromagnetic-Based Computer Aided Design Tools. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 717-725. | 2.9 | 21 |
| 38 | Rigorous multimode network representation of capacitive steps. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 622-628. | 2.9 | 20 |
| 39 | The nature of the spectral gap for leaky waves on a periodic strip-grating structure. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 2296-2307. | 2.9 | 20 |
| 40 | Simple and effective EM-based optimization procedure for microwave filters. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 856-858. | 2.9 | 20 |
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| 43 | Design of Hybrid Folded Rectangular Waveguide Filters With Transmission Zeros Below the Passband. IEEE Transactions on Microwave Theory and Techniques, 2016, , 1-11. | 2.9 | 19 |
| 44 | Accurate CAD for dual mode filters in circular waveguide including tuning elements., 0,,. | | 18 |
| 45 | Design Procedure for Bandpass Filters Based on Integrated Coaxial and Rectangular Waveguide Resonators. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4390-4404. | 2.9 | 18 |
| 46 | Angular bandpass filters: an alternative viewpoint gives improved design flexibility. IEEE Transactions on Antennas and Propagation, 1995, 43, 390-395. | 3.1 | 17 |
| 47 | Capacitive Obstacle Realizing Multiple Transmission Zeros for In-Line Rectangular Waveguide Filters. IEEE Microwave and Wireless Components Letters, 2016, 26, 795-797. | 2.0 | 17 |
| 48 | Low-frequency location of the leaky-wave poles for a dielectric layer. IEEE Transactions on Microwave Theory and Techniques, 1990, 38, 1743-1746. | 2.9 | 15 |
| 49 | Advanced Compact Setups for Passive Intermodulation Measurements of Satellite Hardware. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 700-710. | 2.9 | 15 |
| 50 | An efficient inversion technique for banded linear systems. , 0, , . | | 14 |
| 51 | Compact broadband waveguide diplexer for satellite applications. , 2016, , . | | 14 |
| 52 | Resonant aperture filters in rectangular waveguide. , 0, , . | | 13 |
| 53 | A New Family of Multiband Waveguide Filters Based on a Folded Topology. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2590-2600. | 2.9 | 13 |
| 54 | A Practical Theory for Dielectric Image Guide Leaky-Wave Antennas Loaded by Periodic Metal Strips. , $1987, \ldots$ | | 12 |

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| 55 | Efficient CAD Tool for Inductively Coupled Rectangular Waveguide Filters with Rounded Corners. , 2001, , . | | 12 |
| 56 | Low-cost dual-mode asymmetric filters in rectangular waveguide. , 0, , . | | 12 |
| 57 | Ku-band high-power lowpass filter with spurious rejection. Electronics Letters, 2006, 42, 1460. | 0.5 | 12 |
| 58 | A Technique for the Measurement of the Generalized Scattering Matrix of Overmoded Waveguide Devices. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2705-2714. | 2.9 | 12 |
| 59 | Resonant Aperture Filters: Improved Out-Of-Band Rejection and Size Reduction., 2001,,. | | 11 |
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| 61 | New simple procedure for the computation of the multimode admittance matrix of arbitrary waveguide junctions. , 0, , . | | 10 |
| 62 | Efficient analysis of cubic junction of rectangular waveguides using admittance-matrix representation. IET Microwaves Antennas and Propagation, 2000, 147, 417. | 1.2 | 10 |
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| 64 | Correction of manufacturing deviations in circular-waveguide dual-mode filters using aggressive space mapping. , 2014, , . | | 10 |
| 65 | Evanescent-Mode Ridge-Waveguide Radiating Filters for Space Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 6286-6297. | 3.1 | 10 |
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| 68 | Novel rectangular waveguide structures for advanced filter characteristics. , 2014, , . | | 9 |
| 69 | Robust optimization and tuning of microwave filters and artificial transmission lines using aggressive space mapping techniques. , $2017, , .$ | | 9 |
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| 71 | Compact Dual-Band and Wideband Filters With Resonant Apertures in Rectangular Waveguide. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3125-3140. | 2.9 | 9 |
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| 75 | Enhancing the performance of stepped impedance resonator filters in rectangular waveguide. , 2017, , . | | 8 |
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| 83 | Inline Combline Filters of Order $\langle i \rangle N \langle i \rangle$ With up to $\langle i \rangle N \langle i \rangle + 1$ Transmission Zeros. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3287-3297. | 2.9 | 7 |
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| 111 | Multimode Equivalent Network for Boxed Multilayer Arbitrary Planar Circuits. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2501-2514. | 2.9 | 4 |
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| 115 | Field theory analysis of circular ridge waveguides with partial dielectric filling. , 0, , . | | 3 |
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| 120 | Generalized Thru-Reflect-Line Calibration Technique for the Measurement of Multimodal Radiating Waveguides. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 844-847. | 2.4 | 3 |
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| 126 | Multimode Network Representation of a Radiating Array of Thick Parallel Plates. , 1994, , . | | 2 |

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| 133 | On Multimode Equivalent Network Representation of Finite Arrays of Open-Ended Waveguides. IEEE Transactions on Antennas and Propagation, 2017, 65, 4334-4339. | 3.1 | 2 |
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| 136 | Advanced filter design technique based on equivalent circuits and coupling matrix segmentation. International Journal of Circuit Theory and Applications, 2018, 46, 1055-1071. | 1.3 | 2 |
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| 138 | Systematic procedure for the efficient design of folded waveguide comb-line filters. , 2019, , . | | 2 |
| 139 | Inductive Cascaded Quadruplet With Diagonal Cross-Coupling in Rectangular Waveguide. IEEE Access, 2022, 10, 45241-45255. | 2.6 | 2 |
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| 141 | Correction to "Implementing Transmission Zeros in Inductive-Window Bandpass Filters" [Erratum]. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 353. | 2.9 | 1 |
| 142 | In-line Coaxial Excitation of Rectangular Waveguides. , 1998, , . | | 1 |
| 143 | A new equiripple power splitter for radio link applications. , 1998, , . | | 1 |
| 144 | MoM/BI-RME analysis of boxed microwave circuits based on arbitrarily shaped elements. , 0, , . | | 1 |

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| 145 | Triple-mode asymmetric filters in a rectangular waveguide. Microwave and Optical Technology Letters, 2001, 28, 228-231. | 0.9 | 1 |
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| 147 | A new class of dual-mode asymmetric microwave rectangular filters. , 0, , . | | 1 |
| 148 | Faster technique for the modal analysis of a coaxial cable with misaligned inner conductor. Radio Science, 2004, 39, n/a-n/a. | 0.8 | 1 |
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| 151 | Quality factor of helical coaxial cavity resonators with modulated radius. , 2014, , . | | 1 |
| 152 | A commercial EM solver using the BI-RME method. , 2014, , . | | 1 |
| 153 | Efficient Design Procedure of OMUX Satellite Channel Filters using Full-Wave Numerical Methods. , 2018, , . | | 1 |
| 154 | Optimized Design of Combline Filters with Transmission Zeros. , 2019, , . | | 1 |
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| 156 | On the analysis of capacitive rectangular waveguide discontinuities close to arbitrarily shaped conducting and dielectric posts. AEU - International Journal of Electronics and Communications, 2020, 113, 152976. | 1.7 | 1 |
| 157 | Space mapping filter design and tuning techniques. International Journal of Microwave and Wireless Technologies, 2022, 14, 387-396. | 1.5 | 1 |
| 158 | Multimode equivalent network representation for the scattering from multistrip gratings. IEEE Transactions on Antennas and Propagation, 1995, 43, 597-603. | 3.1 | 0 |
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| 163 | Multimode Equivalent Networks for Shielded Microwave Circuits With Thick Metallizations. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 5004-5013. | 2.9 | О |
| 164 | Multimode Equivalent Network Representations. , 0, , . | | O |