

Guilherme Simon da Rosa

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Perturbation Solution for Anisotropic Circular Waveguides Loaded With Eccentric Rods. IEEE Microwave and Wireless Components Letters, 2022, 32, 935-938.	3.2	3
2	A Robust Method for Solving the Modal Fields in Radially Unbounded Cylindrical Waveguides With Two Layers Under Extreme Conductive Conditions. IEEE Transactions on Antennas and Propagation, 2022, 70, 5841-5848.	5.1	2
3	A Novel Mode-Matching Formulation of Multifurcated Waveguide Junctions. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2021, 20, 675-688.	0.7	2
4	Perturbative Analysis of Anisotropic Coaxial Waveguides With Small Eccentricities via Conformal Transformation Optics. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3958-3966.	4.6	5
5	A Combined Mode-Matching Technique and Born Approximation Method to Model Well-Logging Sensors in Non-Axisymmetric Boreholes. IEEE Access, 2021, 9, 84364-84374.	4.2	4
6	A High-Frequency Uniform Asymptotic Solution for Electromagnetic Field Scattering by a PEC Wedge Including Grazing Incidence Scenarios. IEEE Transactions on Antennas and Propagation, 2020, 68, 6296-6305.	5.1	3
7	Perturbational Method for Modeling Electromagnetic Propagation Through Non-axisymmetric Geophysical Formations. , 2020, , .		0
8	A mode-matching solution for the study of cylindrical waveguide bifurcation via closed-form coupling integrals. AEU - International Journal of Electronics and Communications, 2020, 118, 153135.	2.9	5
9	A Perturbation Method for the Analysis of Eccentric Coaxial Waveguides. , 2020, , .		1
10	A Novel Semi-Analytical Mode-Matching Technique for Modeling Realistic Electromagnetic Well-Logging Sensors Immersed in Dissipative Inhomogeneous Media. , 2019, , .		1
11	A High-Frequency Uniform Asymptotic Solution for Electromagnetic Field Scattering by a 3D Wedge Including Grazing Incidence Scenarios. , 2019, , .		0
12	A Perturbation Method to Model Electromagnetic Well-Logging Tools in Curved Boreholes. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1979-1993.	6.3	5
13	An Efficient Mode-Matching Solution for Open-Ended Coaxial Waveguides via Analytic Continuation of the Radial Space. , 2018, , .		2
14	Plane Wave Scattering by a PEC Wedge in Relativistic Translational Motion: Exact and Uniform Asymptotic Solutions. , 2018, , .		1
15	A Comparison of Two Numerical Mode-Matching Methodologies for the Analysis of Inhomogeneous Media With Radial and Vertical Stratifications. IEEE Transactions on Antennas and Propagation, 2018, 66, 7499-7504.	5.1	6
16	A Robust Mode-Matching Algorithm for the Analysis of Triaxial Well-Logging Tools in Anisotropic Geophysical Formations. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2534-2545.	6.3	21
17	A comparison of numerical mode-matching techniques for the analysis of well-logging tools. , 2017, , .		1
18	Mode-matching modeling of low-frequency wireless telemetry in deep oil fields. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Relativistic Aspects of Plane Wave Scattering by a Perfectly Conducting Half-Plane With Uniform Velocity Along an Arbitrary Direction. IEEE Transactions on Antennas and Propagation, 2017, 65, 4759-4767.	5.1	7
20	Corrections to "Relativistic Aspects of Plane Wave Scattering by a Perfectly Conducting Half-Plane With Uniform Velocity Along an Arbitrary Direction" [Sep 17 4759-4767]. IEEE Transactions on Antennas and Propagation, 2017, 65, 6199-6199.	5.1	2
21	Some recent improvements in modeling of electromagnetic well-logging sensors via numerical mode-matching. , 2017, , .		1
22	Electromagnetic modeling of wave propagation in curved boreholes for geophysical exploration. , 2017, , .		0
23	Pseudoanalytical modeling of electromagnetic well-logging sensors inside directional wells. , 2017, , .		0
24	Physical (Geometrical) Analysis of Polarization Phenomena Arising in the Diffraction by Scatterers in Relativistic Uniform Motion. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 3216-3219.	4.0	2
25	Pseudo-Analytical Modeling of Tilted-Coil Antennas in Anisotropic Geophysical Formations. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2017, 16, 284-296.	0.7	2
26	Axial mode-matching technique for analysis of directional well-logging sensor tools. , 2016, , .		1
27	Pseudo-Analytical Modeling for the Electromagnetic Propagation in Stratified Cylindrical Structures. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 344-347.	4.0	6
28	Improvements on the Search Modal Propagation Constants in Lossy Circular Waveguides. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 754-757.	4.0	6
29	Electromagnetic propagation along lossy anisotropic and radially stratified cylindrical structures. , 2014, , .		2
30	High-frequency asymptotic analysis of diffraction of plane waves by a perfectly conducting half-plane in motion. , 2013, , .		0
31	Electromagnetic analysis of wireless telemetry for oil fields. , 2013, , .		2
32	Inexpensive Interferometer for Low Frequency Radio Astronomy. Journal of Communication and Information Systems, 2012, 27, 30-42.	0.3	2
33	Study of Antennas for a Low Cost Interferometer. , 2011, , .		0