

# Ivan Gonzalez

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

125  
citations

5  
h-index

8  
g-index

57  
ext. papers

180  
ext. citations

2  
avg, IF

2.32  
L-index

#	Paper	IF	Citations
45	Fast Computation by MLFMM-FFT with NURBS in Large Volumetric Dielectric Structures. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 1560	2.6	0
44	Method of Moments Based on Equivalent Periodic Problem and FFT with NURBS Surfaces for Analysis of Multilayer Periodic Structures. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 234	2.6	2
43	BICGSTAB-FFT Method of Moments with NURBS for Analysis of Planar Generic Layouts Embedded in Large Multilayer Structures. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1476	2.6	2
42	Fast Preconditioner Computation for BICGSTAB-FFT Method of Moments with NURBS in Large Multilayer Structures. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1938	2.6	1
41	Comparison between Specialized Quadrature Rules for Method of Moments with NURBS Modelling Applied to Periodic Multilayer Structures. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 2043	2.6	1
40	Experimental Validation of Generating Two Spaced Beams With Reflectarrays by VRT. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4263-4268	4.9	6
39	Design of a TTC Antenna Using Simulation and Multiobjective Evolutionary Algorithms. <i>IEEE Aerospace and Electronic Systems Magazine</i> , <b>2019</b> , 34, 18-31	2.4	
38	Multi-Beam Circular Polarized Reflectarray on Parabolic Reflector by Variable Rotation Technique. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2659	2.6	1
37	Speed-up of the volumetric method of moments for the approximate RCS of large arbitrary-shaped dielectric targets. <i>Computer Physics Communications</i> , <b>2017</b> , 217, 35-42	4.2	1
36	Efficient combination of acceleration techniques applied to high frequency methods for solving radiation and scattering problems. <i>Computer Physics Communications</i> , <b>2017</b> , 221, 28-41	4.2	6
35	An efficient hybrid technique in RCS predictions of complex targets at high frequencies. <i>Journal of Computational Physics</i> , <b>2017</b> , 345, 345-357	4.1	4
34	Using Simulation and the NSGA-II Evolutionary Multi-Objective Algorithm in the Design of a Compact Dual-Band Equatorial Helix Antenna <b>2017</b> ,		2
33	Analysis of collision avoidance systems for automobile applications <b>2016</b> ,		2
32	A shielding effectiveness prediction method for coupled reverberant cavities validated on a real object. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2015</b> , 29, 1829-1840	1.3	4
31	AN OVERVIEW OF THE EVOLUTION OF METHOD OF MOMENTS TECHNIQUES IN MODERN EM SIMULATORS (Invited Paper). <i>Progress in Electromagnetics Research</i> , <b>2015</b> , 150, 109-121	3.8	2
30	Prediction of the maximum electric field level inside a metallic cavity using a quality factor estimation. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2014</b> , 28, 1468-1477	1.3	5
29	A Hybrid Technique Based on the Combination of Multilevel Fast Multipole Algorithm and the Geometrical Theory of Diffraction. <i>International Journal of Antennas and Propagation</i> , <b>2014</b> , 2014, 1-6	1.2	

28	Application of EBG Structures to the Design of a Multibeam Reflector Feed. <i>IEEE Antennas and Propagation Magazine</i> , <b>2014</b> , 56, 60-73	1.7	2
27	Analysis of NURBS dielectric volumes by using the Method of Moments <b>2014</b> ,		1
26	Broadband reflectarray antenna composed of single-layer concentric rings. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2013</b> , 27, 2166-2175	1.3	5
25	<b>2013</b> ,		2
24	Broadband design of a low-profile reflector antenna. <i>IET Microwaves, Antennas and Propagation</i> , <b>2013</b> , 7, 630-634	1.6	2
23	Influence of the feed location on the performance of a conformed Fresnel zone reflector. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2013</b> , 12, 547-550	3.8	2
22	Application of Asymptotic and Rigorous Techniques for the Characterization of Interferences Caused by a Wind Turbine in Its Neighborhood. <i>International Journal of Antennas and Propagation</i> , <b>2013</b> , 2013, 1-10	1.2	2
21	Characterization of the Radio Propagation Channel in a Real Scenario. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 129-138	0.3	
20	Dynamic Propagation Analysis in Urban Environments. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 139-148	0.3	
19	Computer tool for designing reflectarray antennas <b>2012</b> ,		1
18	. <i>IEEE Antennas and Propagation Magazine</i> , <b>2012</b> , 54, 63-77	1.7	16
17	Electromagnetic simulations for aeronautical satellite communications channel model <b>2012</b> ,		2
16	Analysis of a Reflectarray by Using an Iterative Domain Decomposition Technique. <i>International Journal of Antennas and Propagation</i> , <b>2012</b> , 2012, 1-8	1.2	1
15	Design and Optimization of an EBG Antenna with an Efficient Electromagnetic Solver. <i>International Journal of Antennas and Propagation</i> , <b>2012</b> , 2012, 1-8	1.2	4
14	Efficient RCS analysis of complex targets on infinite ground plane <b>2012</b> ,		3
13	Efficient iterative solution of problems using characteristic basis function method combined with multilevel fast multipole algorithm <b>2012</b> ,		1
12	A comparison of the computational resources required by a Domain Decomposition approach and other efficient numerical techniques based on the moment method <b>2012</b> ,		4
11	REDESIGN AND OPTIMIZATION OF THE PAVING ALGORITHM APPLIED TO ELECTROMAGNETIC TOOLS (Invited Paper). <i>Progress in Electromagnetics Research B</i> , <b>2011</b> , 29, 409-429	0.7	4

10	AN EFFICIENT HYBRID-SCHEME COMBINING THE CHARACTERISTIC BASIS FUNCTION METHOD AND THE MULTILEVEL FAST MULTIPOLE ALGORITHM FOR SOLVING BISTATIC RCS AND RADIATION PROBLEMS. <i>Progress in Electromagnetics Research B</i> , <b>2011</b> , 34, 327-343	0.7	6
9	Analyzing large reflectors antennas built with complex knitted meshes <b>2011</b> ,		1
8	Numerical approach for the fast analysis of radiation patterns of antennas in complex environments <b>2010</b> ,		1
7	FASANT: A Versatile Tool to Analyze Radio Localization System at Indoor or Outdoor Environments. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 259-266		2
6	Evaluation of Particle Swarm Optimization Applied to Single Snapshot Direction of Arrival Estimation. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2008</b> , 22, 2251-2258	1.3	3
5	Fast ray-tracing for computing n-bounces between curved surfaces <b>2008</b> ,		1
4	New version of FASANT code <b>2008</b> ,		1
3	Application of the Multilevel Fast Multipole Method to the analysis of holographic antennas <b>2008</b> ,		1
2	Efficient parallelization of a CBFM-MLFMA scheme for the computation of complex electromagnetic problems <b>2008</b> ,		1
1	FASANT: past computer tool for the analysis of on-board antennas. <i>IEEE Antennas and Propagation Magazine</i> , <b>1999</b> , 41, 94-98	1.7	15