Jesús Rubio

List of Publications by Year
in descending order

41	456	840776	713466
papers	citations	11	21
		h-index	g-index

41	41	41	290
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mutual Coupling of Antennas With Overlapping Minimum Spheres Based on the Transformation Between Spherical and Plane Vector Waves. IEEE Transactions on Antennas and Propagation, 2021, 69, 2103-2111.	5.1	3
2	Multistep Transitions From Microstrip and GCPW Lines to SIW in 5G 26 GHz Band. IEEE Access, 2021, 9, 68778-68787.	4.2	2
3	Direct FEM-Domain Decomposition Using Convex-to-Concave Spherical Ports for Space Applications. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2230-2234.	4.0	2
4	Simultaneous Use of Addition Theorems for Cylindrical and Spherical Waves for the Fast Full-Wave Analysis of SIW-Based Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2019, 67, 7379-7386.	5.1	5
5	Applications of the direct domain decomposition based on cylindrical ports in the hybrid Finite Element/Modal Analysis method. , 2019, , .		0
6	Overall Formulation for Multilayer SIW Circuits Based on Addition Theorems and the Generalized Scattering Matrix. IEEE Microwave and Wireless Components Letters, 2018, 28, 485-487.	3.2	6
7	Synthesis of coupled antenna arrays using digital phase control via integer programming. IET Microwaves, Antennas and Propagation, 2018, 12, 999-1003.	1.4	4
8	Pattern Synthesis of Coupled Antenna Arrays via Element Rotation. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1707-1710.	4.0	16
9	Gradient-Based Aperiodic Array Synthesis of Real Arrays With Uniform Amplitude Excitation Including Mutual Coupling. IEEE Transactions on Antennas and Propagation, 2017, 65, 541-551.	5.1	24
10	Slotted waveguide antenna design by segmented simulation and multi-objective genetic algorithm. , 2017, , .		1
11	Near-Optimal Shaped Beam Synthesis of Real and Coupled Antenna Arrays via 3D-FEM and Phase Retrieval.. IEEE Transactions on Antennas and Propagation, 2016, , 1-1.	5.1	4
12	Shaped beam synthesis of sparse arrays of coupled elements through a modified Orthogonal Matching Pursuit algorithm and multiple dictionaries. , 2016, , .		0
13	Efficient Radiation Antenna Modeling via Orthogonal Matching Pursuit in Terms of Infinitesimal Dipoles. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 444-447.	4.0	10
14	Computer Automated Design of an Irregular Slotted Waveguide Array for Ku-Band. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1593-1597.	4.0	4
15	Rotation of curl-conforming elements for a frequency stable application to the Surface Integral Equation. , 2015, , .		0
16	Direct domain decomposition for on-board spacecraft antennas based on spherical ports. , 2015, , .		0
17	Array Thinning of Coupled Antennas Based on the Orthogonal Matching Pursuit Method and a Spherical-Wave Expansion for Far-Field Synthesis. IEEE Transactions on Antennas and Propagation, 2015, 63, 5425-5432.	5.1	10
18	Mutual Coupling Compensation Matrices for Transmitting and Receiving Arrays. IEEE Transactions on Antennas and Propagation, 2015, 63, 839-843.	5.1	21

#	Article	IF	Citations
19	Full modeling of wideband volumetric antennas by elementary sources placed on the ground plane. Journal of Electromagnetic Waves and Applications, 2013, 27, 794-806.	1.6	3
20	Antenna-Generalized Scattering Matrix in Terms of Equivalent Infinitesimal Dipoles: Application to Finite Array Problems. IEEE Transactions on Antennas and Propagation, 2012, 60, 4601-4609.	5.1	16
21	Spherical-Waves-Based Analysis of Arrays of Volumetric Antennas With Overlapping Minimum Spheres. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1296-1299.	4.0	7
22	A novel hybrid technique for mutual coupling modeling of antennas with strongly overlapped minimum-spheres. , 2012, , .		0
23	Full-wave modeling of antennas by elementary sources based on spherical waves translation. , 2012, , .		0
24	Planar ESPAR Array Design with Nonsymmetrical Pattern by Means of Finite-Element Method, Domain Decomposition, and Spherical Wave Expansion. International Journal of Antennas and Propagation, 2012, 2012, 1-8.	1.2	0
25	ANN Characterization of Multi-Layer Reflectarray Elements for Contoured-Beam Space Antennas in the Ku-Band. IEEE Transactions on Antennas and Propagation, 2012, 60, 3205-3214.	5.1	44
26	Relation Between the Array Pattern Approach in Terms of Coupling Coefficients and Minimum Scattering Antennas. IEEE Transactions on Antennas and Propagation, 2011, 59, 2532-2537.	5.1	7
27	Spherical-Wave-Based Shaped-Beam Field Synthesis for Planar Arrays Including the Mutual Coupling Effects. IEEE Transactions on Antennas and Propagation, 2011, 59, 2872-2881.	5.1	12
28	Antenna Modeling by Elementary Sources Based on Spherical Waves Translation and Evolutionary Computation. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 923-926.	4.0	11
29	A Fast Technique to Estimate the Mutual Coupling Coefficients From the Transmitting Characteristics of an Isolated Element. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 1182-1185.	4.0	2
30	Mutual Coupling Compensation in Arrays Using a Spherical Wave Expansion of the Radiated Field. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 108-111.	4.0	16
31	Inclusion of the Feeding Network Effects in the Generalized-Scattering-Matrix Formulation of a Finite Array. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 819-822.	4.0	11
32	Performance characterization of wideband, wide-angle scan arrays of cavity-backed U-slot microstrip patch antennas. International Journal of RF and Microwave Computer-Aided Engineering, 2009, 19, 389-396.	1.2	5
33	Fourier Synthesis of Linear Arrays Based on the Generalized Scattering Matrix and Spherical Modes. IEEE Transactions on Antennas and Propagation, 2009, 57, 1944-1951.	5.1	3
34	Multiobjective Optimization of Real and Coupled Antenna Array Excitations via Primal-Dual, Interior Point Filter Method From Spherical Mode Expansions. IEEE Transactions on Antennas and Propagation, 2009, 57, 110-121.	5.1	11
35	Full-wave analysis of the GALILEO System Navigation Antenna by means of the generalized scattering matrix of a finite array. , 2006, , .		8
36	The computation of the input impedance of a biconical antenna by means of a method of segmentation based on 3D finite elements. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2003, 16, 417-426.	1.9	0

#	Article	IF	Citations
37	Efficient full-wave analysis of mutual coupling between cavity-backed microstrip patch antennas. IEEE Antennas and Wireless Propagation Letters, 2003, 2, 155-158.	4.0	13
38	Analysis of cavity-backed microstrip antennas by a 3-D finite element/segmentation method and a matrix Lanczos-Pade algorithm (SFELP). IEEE Antennas and Wireless Propagation Letters, 2002, 1, 193-195.	4.0	49
39	CAD of cylindrical dielectric resonator filters by a 3-D finite-element segmentation method. Microwave and Optical Technology Letters, 2001, 31, 71-75.	1.4	1
40	SFELP-an efficient methodology for microwave circuit analysis. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 509-516.	4.6	54
41	Analysis of passive microwave circuits by using a hybrid 2-D and 3-D finite-element mode-matching method. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 1746-1749.	4.6	71