Marta G AraÃºjo

List of Publications by Year
in descending order

37 papers	442 citations	840776 11 h-index	713466 21 g-index
37 all docs	37 docs citations	37 times ranked	285 citing authors

#	Article	IF	Citations
1	Method-of-moments formulation for the analysis of plasmonic nano-optical antennas. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1341.	1.5	86
2	Comparison of surface integral equation formulations for electromagnetic analysis of plasmonic nanoscatterers. Optics Express, 2012, 20, 9161.	3.4	62
3	MLFMA-FFT Parallel Algorithm for the Solution of Extremely Large Problems in Electromagnetics. Proceedings of the IEEE, 2013, 101, 350-363.	21.3	47
4	High Scalability FMM-FFT Electromagnetic Solver for Supercomputer Systems. IEEE Antennas and Propagation Magazine, 2009, 51, 20-28.	1.4	45
5	Solution of large-scale plasmonic problems with the multilevel fast multipole algorithm. Optics Letters, 2012, 37, 416.	3.3	41
6	On the Use of the Singular Value Decomposition in the Fast Multipole Method. IEEE Transactions on Antennas and Propagation, 2008, 56, 2325-2334.	5.1	27
7	Iterative physical-optics formulation for analyzing large waveguides with lossy walls. Microwave and Optical Technology Letters, 2001, 28, 21-26.	1.4	26
8	MLFMA-MoM for Solving the Scattering of Densely Packed Plasmonic Nanoparticle Assemblies. IEEE Photonics Journal, 2015, 7, 1-9.	2.0	19
9	Accurate EMC Engineering on Realistic Platforms Using an Integral Equation Domain Decomposition Approach. IEEE Transactions on Antennas and Propagation, 2020, 68, 3002-3015.	5.1	19
10	Improving condition number and convergence of the surface integral-equation method of moments for penetrable bodies. Optics Express, 2012, 20, 17237.	3.4	17
11	Design of optical wide-band log-periodic nanoantennas using surface integral equation techniques. Optics Communications, 2013, 301-302, 61-66.	2.1	11
12	Electromagnetic Analysis of Metamaterials and Plasmonic Nanostructures with the Method of Moments. IEEE Antennas and Propagation Magazine, 2012, 54, 81-91.	1.4	9
13	Real-Time Telemetry System for Monitoring Motion of Ships Based on Inertial Sensors. Sensors, 2017, 17, 948.	3.8	7
14	Multilevel fast multipole algorithm for fields. Journal of Electromagnetic Waves and Applications, 2018, 32, 1261-1274.	1.6	6
15	Modeling High Frequency Propagation in Tunnel Environments by Iterative Physical Optics Method. Wireless Personal Communications, 2002, 20, 237-250.	2.7	5
16	Insensitive Environment Calibration Procedure for an Instrumental Radar. Journal of Electromagnetic Waves and Applications, 2010, 24, 2165-2177.	1.6	3
17	Extended near field preconditioner for the analysis of large problems using the nestedâ€FMMâ€FFT algorithm. Microwave and Optical Technology Letters, 2011, 53, 430-433.	1.4	3
18	Calculation of wave propagation parameters in generalized media. Microwave and Optical Technology Letters, 2012, 54, 2731-2736.	1.4	2

#	Article	IF	Citations
19	HF broadband antenna design for shipboard communications: Simulation and measurements. Measurement: Journal of the International Measurement Confederation, 2016, 89, 13-20.	5.0	2
20	Radiation hazards to personnel from non-ionizing fields of broadband HF systems onboard a vessel: Measurement and simulation. Measurement: Journal of the International Measurement Confederation, 2018, 115, 223-232.	5.0	2
21	Accurate evaluation of singular potential integrals in an asymptotic-phase method of moments formulation. Microwave and Optical Technology Letters, 2007, 49, 2189-2197.	1.4	1
22	Optimization of invisibility cloaks by surface integral equation method. , 2012, , .		1
23	Successes and frustrations in the solution of large electromagnetic problems in supercomputers. , 2017, , .		1
24	Compression of the fast multipole method using the singular value decomposition. , 2007, , .		0
25	Geometrically based preconditioner for the Fast Multipole Method using rooftop basis functions and Galerkin testing procedure. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	0
26	MLFMA-FFT algorithm for the solution of challenging problems in electromagnetics. , 2010, , .		0
27	Computational electromagnetic solutions for large-scale conductors, left-handed metamaterials and plasmonic nanostructures. , 2011, , .		0
28	Low-Cost Procedure for Radar-Imaging Simulation. IEEE Antennas and Propagation Magazine, 2011, 53, 55-62.	1.4	0
29	Large-scale plasmonic problems solved with the multilevel fast multipole algorithm. , 2012, , .		0
30	Comparative of surface integral equation formulations when applied to plasmonic problems. , 2012, , .		0
31	Design of optical nanoantennas with the surface integral equation method of moments. , 2012, , .		0
32	Fast surface integral equation formulations for large-scale conductors, metamaterials, and plasmonic problems. , 2012, , .		0
33	Design of broadband nano-optical antennas with the surface method of moments. , 2012, , .		0
34	Preconditioning the surface integral equation formulations for the fast solution of penetrable bodies composed of arbitrary materials. , 2013, , .		0
35	Boundary element method for the electromagnetic analysis of metamaterials. , 2015, , .		0
36	Boundary element methods for the scattering retrieval of metamaterials. , 2015, , .		0

#	Article	IF	Citations
37	Evaluation of singular potential integrals in the method of moments using linearly phased RWG basis functions. , 2007, , .		0