

# Adroaldo Raizer

## List of Publications by Year in descending order

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50  
papers

346  
citations

840776

11  
h-index

888059

17  
g-index

51  
all docs

51  
docs citations

51  
times ranked

246  
citing authors

#	ARTICLE	IF	CITATIONS
1	An approach for automatic adaptive mesh refinement in finite element computation of magnetic fields. IEEE Transactions on Magnetics, 1989, 25, 2965-2967.	2.1	35
2	TLM and FEM methods applied in the analysis of electromagnetic coupling. IEEE Transactions on Magnetics, 2000, 36, 982-985.	2.1	32
3	A new computational approach for electrical analysis of biological tissues. Bioelectrochemistry, 2003, 59, 73-84.	4.6	32
4	Parallel adaptive mesh generation. Journal of Applied Physics, 1990, 67, 5803-5805.	2.5	24
5	Electromagnetic fields radiated by a cellular phone in close proximity to metallic walls. IEEE Transactions on Magnetics, 2002, 38, 793-796.	2.1	19
6	New techniques in FEM field calculation applied to power cable characteristics computation. IEEE Transactions on Magnetics, 1990, 26, 2388-2390.	2.1	17
7	A magnetostatic 2D comparison of local error estimators in FEM. IEEE Transactions on Magnetics, 1993, 29, 1902-1905.	2.1	15
8	The impedance boundary condition applied to the finite element method using the magnetic vector potential as state variable: a rigorous solution for high frequency axisymmetric problems. IEEE Transactions on Magnetics, 1992, 28, 1643-1646.	2.1	13
9	Error estimation of finite element solution in nonlinear magnetostatic 2D problems. IEEE Transactions on Magnetics, 1998, 34, 3268-3271.	2.1	13
10	Development of a new methodology for measurements of earth resistance, touch and step voltages within urban substations. Electric Power Systems Research, 2017, 153, 111-118.	3.6	13
11	Analysis of the Lightning Performance of Overhead Distribution Lines. IEEE Transactions on Power Delivery, 2010, 25, 1706-1712.	4.3	12
12	The Use of Digital Twins in Finite Element for the Study of Induction Motors Faults. Sensors, 2021, 21, 7833.	3.8	11
13	On the use of the surface impedance concept in shielded and multiconductor cable characterization by the finite element method. IEEE Transactions on Magnetics, 1992, 28, 1446-1449.	2.1	8
14	Comparison of simulated and recorded transients for travelling wave fault location. , 0, , .		8
15	Optimal meshes and h-p adaptivity. IEEE Transactions on Magnetics, 1997, 33, 1752-1755.	2.1	7
16	An a priori indicator of finite element quality based on the condition number of the stiffness matrix. IEEE Transactions on Magnetics, 1997, 33, 1748-1751.	2.1	7
17	Optimal Indoor Transmitters Location Using TLM and Kriging Methods. IEEE Transactions on Magnetics, 2008, 44, 1354-1357.	2.1	7
18	Modeling transient discharge suppressors. IEEE Potentials, 2004, 23, 43-45.	0.3	6

#	ARTICLE	IF	CITATIONS
19	EMC MANAGEMENT: HOW TO COMPARE ELECTROMAGNETIC ENVIRONMENTAL MEASUREMENTS AND EQUIPMENT IMMUNITY LEVELS. Progress in Electromagnetics Research Letters, 2010, 18, 165-177.	0.7	6
20	Magnetic field computation in a transformer core with an automatic adaptive mesh generator. Journal of Applied Physics, 1990, 67, 5806-5808.	2.5	5
21	Hybrid F.E.-wavelet method for nonlinear analysis of nonuniform MTL transients. IEEE Transactions on Magnetics, 2000, 36, 977-981.	2.1	5
22	A fast method for computation of the bistatic radar cross section. IEEE Transactions on Magnetics, 2000, 36, 921-924.	2.1	5
23	Single-phase insulator transformers. IEEE Potentials, 2002, 21, 35-38.	0.3	5
24	Impulse coefficient for square grounding grids in low resistivity soils: Influence of injection electrode. Journal of Electrostatics, 2014, 72, 372-380.	1.9	5
25	A 3D autoadaptive mesh generator for magnetostatic and magnetodynamic problems. IEEE Transactions on Magnetics, 1994, 30, 3531-3534.	2.1	4
26	Contribution to Tagg's methodology in the resistance measurement of earth-electrode systems at reduced distances. , 2015, , .		4
27	Simulation of a mode stirred chamber excited by wires using the TLM method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2003, 22, 770-778.	0.9	3
28	The Use of TLM and Kriging Methods for Electromagnetic Compatibility Management in Health Care Facilities. IEEE Transactions on Magnetics, 2008, 44, 1478-1481.	2.1	3
29	Deterministic tool based on transmission line modelling and Kriging for optimal transmitter location in indoor wireless systems. IET Microwaves, Antennas and Propagation, 2011, 5, 1537.	1.4	3
30	The Use of Equivalent Model and Numerical Simulation for EMC Analysis in Hospital Environments. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 950-955.	2.2	3
31	Tumor compression due application of DC current. IEEE Transactions on Magnetics, 2001, 37, 3753-3756.	2.1	2
32	TLM (transmission-line modeling method) applied to grounding systems. , 0, , .		2
33	Ground impedance assessment employing earth measurements, numerical simulations, and analytical techniques. , 2015, , .		2
34	Analysis of harmonic current emissions in voltages below the presented by the Standard IEC 61000-3-2. , 2017, , .		2
35	Transient Scattering from Metallic Enclosures Using 3D Time Domain Methods. , 2003, , 286-291.		2
36	The BECM concepts applied to heal cancer. IEEE Transactions on Magnetics, 1998, 34, 2811-2814.	2.1	1

#	ARTICLE	IF	CITATIONS
37	A three-dimensional current cell (TCC) for the TLM method. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2001, 14, 79-93.	1.9	1
38	Power quality related to switched mode power supplies associations. , 0, , .		1
39	Analysis of harmonic distortion and electromagnetic interference due to and electromagnetic ballasts. , 0, , .		1
40	Near-fields: Numerical modeling and experimental validation in embedded electronic systems. , 2012, , .		1
41	Estimating Far-Field Emissions From Simulated Near-Field Data With Artificial Neural Networks. IEEE Transactions on Magnetism, 2014, 50, 205-208.	2.1	1
42	h-p adaptivity with hierarchic hexahedral elements. IEEE Transactions on Magnetism, 1998, 34, 3272-3275.	2.1	0
43	Wave propagation analysis using a new three-dimensional TLM cell. IEEE Transactions on Magnetism, 2000, 36, 925-930.	2.1	0
44	Development of meander line type antenna for the reception of high definition digital signals. , 2015, , .		0
45	A contribution to the study of ground grids impulse impedande, based on field measurements. , 2017, , .		0
46	Using a GTEM cell in an interlaboratory comparison of radiated emission. , 2017, , .		0
47	Analysis of digital TV quality parameters in metropolitan regions. , 2017, , .		0
48	Characterization of Electromagnetic Near Fields in Industrial Systems. , 2018, , .		0
49	Impulse Impedance Measurement Methodology in Space Restricted Locations. , 2019, , .		0
50	Analysis of the Maximum Overvoltages Conducted to the Low Voltage Electric Installations. , 2019, , .		0