

Franco Moglie

List of Publications by Year in descending order

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105
papers

2,351
citations

270111

25
h-index

263392

45
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105
all docs

105
docs citations

105
times ranked

1732
citing authors

#	ARTICLE	IF	CITATIONS
1	MIMO 4 th vs. MIMO 2 nd performance assessment of a real life LTE base station in a reverberation chamber. AEU - International Journal of Electronics and Communications, 2021, 129, 153500.	1.7	5
2	On the Shielding Effectiveness Calculation of Enclosures Through Measurements in Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1395-1406.	1.4	7
3	Shielding Effectiveness Controlling of Coated Glass Assembly in Mobile and Positioning GPS Frequency Bands. , 2021, , .		0
4	Performance of parallel FDTD method for shared- and distributed-memory architectures: Application to bioelectromagnetics. PLoS ONE, 2020, 15, e0238115.	1.1	2
5	Latest developments on the shielding effectiveness measurements of materials and gaskets in reverberation chambers. IET Science, Measurement and Technology, 2020, 14, 435-445.	0.9	8
6	Testing of VoLTE mean opinion score in reverberation chambers. IET Science, Measurement and Technology, 2020, 14, 949-954.	0.9	4
7	Flexible FDTD Simulation for the Wireless Earphone Exposure Evaluation. , 2020, , .		1
8	HPC Simulations of a Reverberation Chamber with Nonparallel Walls. , 2019, , .		2
9	On the Estimated Measurement Uncertainty of the Insertion Loss in a Reverberation Chamber Including Frequency Stirring. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1414-1422.	1.4	9
10	Correlation matrix methods to assess the stirring performance of electromagnetic reverberation chambers. Wave Motion, 2019, 87, 213-226.	1.0	15
11	Birth and Development of the "Electromagnetic Fields" Group. , 2019, , 23-36.		0
12	Over-the-Air Tests of High-Speed Moving LTE Users in a Reverberation Chamber. IEEE Transactions on Vehicular Technology, 2018, 67, 4340-4349.	3.9	22
13	Shielding Effectiveness of Randomly Distributed Conductive Elements: Experimental Analysis and Simplified Model. , 2018, , .		0
14	Experimental Analysis of the Aging Effects on Shielding Effectiveness of Cementitious Composites. , 2018, , .		3
15	Applicability of Measurement Uncertainty Models in a Reverberation Chamber Including Frequency Stirring. , 2018, , .		1
16	Base-Case Model for Measurement Uncertainty in a Reverberation Chamber Including Frequency Stirring. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1695-1703.	1.4	22
17	Helical Stirring for Enhanced Low-Frequency Performance of Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1016-1026.	1.4	13
18	A Comparison Between Different Reception Diversity Schemes of a 4G-LTE Base Station in Reverberation Chamber: A Deployment in a Live Cellular Network. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 2029-2037.	1.4	42

#	ARTICLE	IF	CITATIONS
19	High performance FDTD simulations for chaotic electromagnetic environments. , 2017, , .		6
20	Testing of the Carrier Aggregation Mode for a Live LTE Base Station in Reverberation Chamber. IEEE Transactions on Vehicular Technology, 2017, 66, 3024-3033.	3.9	35
21	Stirring performance of helically distributed paddles. , 2017, , .		5
22	Reverberation chambers deformed by spherical diffractors. , 2017, , .		5
23	Evaluation of stirrer efficiency varying the volume of the reverberation chamber. , 2016, , .		4
24	Optimization of 4G wireless access network features by using reverberation chambers: Application to high-speed train LTE users. , 2016, , .		8
25	Reliable Finite-Difference Time-Domain Simulations of Reverberation Chambers by Using Equivalent Volumetric Losses. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 653-660.	1.4	23
26	Shielding effectiveness statistical evaluation of random concrete composites. , 2016, , .		10
27	Analysis of field probe perturbation in a mode stirred reverberation chamber. , 2015, , .		4
28	Effect of absorber number and positioning on the power delay profile of a reverberation chamber. , 2015, , .		17
29	Uncorrelated frequency steps in a reverberation chamber: A multivariate approach. , 2015, , .		10
30	A mechanical mode-stirred reverberation chamber inspired by chaotic cavities. , 2015, , .		6
31	Stirrer Efficiency as a Function of its Axis Orientation. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 1732-1735.	1.4	19
32	Coupling Between Multipath Environments Through a Large Aperture. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1463-1466.	2.4	23
33	Advanced concrete materials for EMI reduction in protected environment and IEMI threats suppression. , 2015, , .		10
34	Power Boosting and Compensation During OTA Testing of a Real 4G LTE Base Station in Reverberation Chamber. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 623-634.	1.4	41
35	Over-the-air performance testing of a real 4G LTE base station in a reverberation chamber. , 2014, , .		14
36	Reverberation Chamber Performance Varying the Position of the Stirrer Rotation Axis. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 486-489.	1.4	27

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37	Numerical Simulations of Field Values, Wave Impedance, and Received Power Inside a Nonideal Reverberation Chamber. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 994-997.	1.4	6
38	A continued evaluation of the general method for determining the number of independent stirrer positions in reverberation chambers. , 2014, , .		6
39	Dependence of reverberation chamber performance on distributed losses: A numerical study. , 2014, , .		6
40	4G-LTE base station output power estimation from statistical counters during over-the-air tests in reverberation chamber. , 2014, , .		5
41	Broadband electromagnetic characterization of carbon foam to metal contact. Carbon, 2014, 68, 149-158.	5.4	80
42	Safety Investigation of a Magnetic Pulse Applicator for Heart Stimulation. IEEE Transactions on Magnetics, 2014, 50, 1-8.	1.2	3
43	Electromagnetic characterization and shielding effectiveness of concrete composite reinforced with carbon nanotubes in the mobile phones frequency band. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 188, 119-129.	1.7	103
44	Effect of losses on the maximum-to-mean value in a mode-stirred reverberation chamber. , 2014, , .		3
45	Electromagnetic shielding of thermal protection system for hypersonic vehicles. Acta Astronautica, 2013, 87, 30-39.	1.7	66
46	Stirrer performance of reverberation chambers evaluated by time domain fidelity. , 2013, , .		11
47	Determination of the electrical conductivity of carbon/carbon at high microwave frequencies. Carbon, 2013, 54, 76-85.	5.4	42
48	Reduction of satellite electromagnetic scattering by carbon nanostructured multilayers. Acta Astronautica, 2013, 88, 61-73.	1.7	66
49	Performance and Immunity Evaluation of Complete WLAN Systems in a Large Reverberation Chamber. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 806-815.	1.4	45
50	Quantifying volume changing perturbations in a wave chaotic system. New Journal of Physics, 2013, 15, 023025.	1.2	21
51	Carousel stirrer efficiency evaluation by a volumetric lattice-based correlation matrix. , 2013, , .		9
52	REVERBERATION CHAMBER AS A MULTIVARIATE PROCESS: FDTD EVALUATION OF CORRELATION MATRIX AND INDEPENDENT POSITIONS. Progress in Electromagnetics Research, 2013, 133, 217-234.	1.6	47
53	Reverberation chamber as a statistical relaxation process: Entropy analysis and fast time domain simulations. , 2012, , .		8
54	Experimental and numerical analysis of a carousel stirrer for reverberation chambers. , 2012, , .		13

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55	Modeling and measuring of microwave absorbing and shielding nanostructured materials. , 2012, , .		3
56	Numerical and experimental analysis of the performance of a reduced surface stirrer for reverberation chambers. , 2012, , .		12
57	ABSORBING CROSS SECTION IN REVERBERATION CHAMBER: EXPERIMENTAL AND NUMERICAL RESULTS. Progress in Electromagnetics Research B, 2012, 45, 187-202.	0.7	27
58	Electromagnetic shielding performance of carbon foams. Carbon, 2012, 50, 1972-1980.	5.4	268
59	Numerical Simulation of Reverberation Chamber Parameters Affecting the Received Power Statistics. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 522-532.	1.4	41
60	Optimization of Multilayer Shields Made of Composite Nanostructured Materials. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 60-69.	1.4	85
61	Numerical Analysis of a New Location for the Working Volume Inside a Reverberation Chamber. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 238-245.	1.4	43
62	Reverberation chambers: Full 3D FDTD simulations and measurements of independent positions of the stirrers. , 2011, , .		26
63	Broadband Electromagnetic Absorbers Using Carbon Nanostructure-Based Composites. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2633-2646.	2.9	225
64	MODELING OF THE HUMAN EXPOSURE INSIDE A RANDOM PLANE WAVE FIELD. Progress in Electromagnetics Research B, 2011, 29, 251-267.	0.7	16
65	A Realistic Model for the Analysis of Heart Magnetic Stimulation. IEEE Transactions on Biomedical Engineering, 2011, 58, 291-300.	2.5	5
66	Analysis of the Independent Positions of Reverberation Chamber Stirrers as a Function of Their Operating Conditions. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 288-295.	1.4	71
67	System throughput and immunity analysis of a 802.11n WLAN in a large reverberation chamber. , 2011, , .		4
68	Evaluation of uncorrelation and statistics inside a reverberation chamber in presence of two independent stirrers. , 2010, , .		6
69	On the use of a reverberation chamber to test the performance and the immunity of a WLAN system. , 2010, , .		4
70	Numerical Simulation of LOS and NLOS Conditions for an Antenna Inside a Reverberation Chamber. Journal of Electromagnetic Waves and Applications, 2010, 24, 2319-2331.	1.0	25
71	Accurate Analysis of Reverberation Field Penetration Into an Equipment-Level Enclosure. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 170-180.	1.4	41
72	Field Penetration Through a Wire Mesh Screen Excited by a Reverberation Chamber Field: FDTD Analysis and Experiments. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 883-891.	1.4	25

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73	SAR numerical analysis of the whole human body exposed to a random field. , 2009, , .		1
74	Numerical and experimental investigation of unstirred frequencies in reverberation chambers. , 2009, , .		10
75	Analysis of antenna behavior in a multipath environment generated by a reverberation chamber. , 2009, , .		3
76	DSP cement composites for electromagnetic shielding: practice and experimental analysis. , 2009, , .		4
77	Modeling of the Reverberation Chamber Method for Determining the Shielding Properties of a Coaxial Cable. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 246-251.	1.4	9
78	A statistical model of the interaction between reverberation fields and lossy materials. , 2008, , .		1
79	Shielding effectiveness evaluation of densified-small-particles (DSP) cement composite. , 2008, , .		6
80	Evaluation of equipment-level enclosure shielding properties in a reverberation chamber: Numerical and experimental analysis. , 2008, , .		3
81	FDTD Solution of the Maxwellâ€“Boltzmann System for Electromagnetic Wave Propagation in a Plasma. IEEE Transactions on Antennas and Propagation, 2008, 56, 2584-2588.	3.1	39
82	FDTD analysis of the field penetration through lossy materials in a reverberation chamber. , 2007, , .		2
83	Modeling of the Reverberation Chamber Method for the Wire-mesh Shielding Performance Evaluation. , 2007, , .		1
84	A Metrology Application of Reverberation Chambers: The Current Probe Calibration. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 114-122.	1.4	15
85	Experimental and numeric investigation about electromagnetic interference between implantable cardiac pacemaker and magnetic fields at power line frequency. Annali Dell'Istituto Superiore Di Sanita, 2007, 43, 248-53.	0.2	9
86	FDTD Analysis of Plane Wave Superposition to Simulate Susceptibility Tests in Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 195-202.	1.4	71
87	Numerical and Experimental Analysis of the Field to Enclosure Coupling in Reverberation Chamber and Comparison With Anechoic Chamber. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 203-211.	1.4	28
88	Immunity Tests of Implantable Cardiac Pacemaker Against CW and Pulsed ELF Fields: Experimental and Numerical Results. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 502-515.	1.4	23
89	Theoretical and experimental analysis of the field-to-line coupling in a reverberation chamber. IET Science, Measurement and Technology, 2006, 153, 201.	0.7	6
90	Realistic modelling of interference in pacemakers by ELF magnetic fields. , 2005, , .		0

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91	Convergence of the Reverberation Chambers to the Equilibrium Analyzed With the Finite-Difference Time-Domain Algorithm. IEEE Transactions on Electromagnetic Compatibility, 2004, 46, 469-476.	1.4	67
92	Electromagnetic and Thermal Analysis of A RF Oven. Materials Research Innovations, 2004, 8, 4-8.	1.0	0
93	FD-TD Analysis of SAR Distributions Inside Human Head Excited by Cellular Phone Antennas. , 1999, , 769-772.		0
94	De-embedding correction for imperfect absorbing boundary conditions in FDTD. , 1996, 6, 37-39.		4
95	Finite difference time domain analysis of multified non homogeneous loaded cavity. , 1995, , .		2
96	Wideband matching of waveguide discontinuities by FDTD methods. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 2093-2098.	2.9	10
97	Accurate analysis and design of millimeter wave mixers. IEEE Transactions on Microwave Theory and Techniques, 1993, 41, 870-873.	2.9	5
98	Computer modelling of brain cortex excitation by magnetic field pulses. Journal of Medical Engineering and Technology, 1992, 16, 149-156.	0.8	21
99	A new termination condition for the application of FDTD techniques to discontinuity problems in close homogeneous waveguide. , 1992, 2, 475-477.		49
100	Millimeter wave inductive post filters, theory and results. Annales Des Telecommunications/Annals of Telecommunications, 1992, 47, 541-542.	1.6	0
101	Accurate full-band equivalent circuits of inductive posts in rectangular waveguide. IEEE Transactions on Microwave Theory and Techniques, 1992, 40, 1000-1009.	2.9	31
102	A modified dynamic model for planar microwave circuits. IEEE Transactions on Microwave Theory and Techniques, 1991, 39, 2148-2153.	2.9	11
103	Hybrid modes, substrate leakage, and losses of slotline at millimeter-wave frequencies. IEEE Transactions on Microwave Theory and Techniques, 1990, 38, 1069-1078.	2.9	29
104	Current probe characterization in a reverberation chamber. , 0, , .		0
105	Field-to-enclosure coupling in reverberation chamber: numerical and experimental analysis. , 0, , .		1