

Davide Micheli

List of Publications by Year in descending order

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78
papers

3,046
citations

212478

28
h-index

232693

48
g-index

78
all docs

78
docs citations

78
times ranked

2948
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar radio emission as a disturbance of radiomobile networks. Scientific Reports, 2022, 12, .	1.6	3
2	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
3	Rain Effect on 4G LTE In-Car Electromagnetic Propagation Analyzed Through MDT Radio Data Measurement Reported by Mobile Phones. IEEE Transactions on Antennas and Propagation, 2021, 69, 8641-8651.	3.1	7
4	Photons detected in the active nerve by photographic technique. Scientific Reports, 2021, 11, 3022.	1.6	7
5	Shielding Effectiveness Controlling of Coated Glass Assembly in Mobile and Positioning GPS Frequency Bands. , 2021, , .		0
6	Testing of VoLTE mean opinion score in reverberation chambers. IET Science, Measurement and Technology, 2020, 14, 949-954.	0.9	4
7	Statistical analysis of smartphone MDT signaling power measurements for Radio Maritime LTE propagation study. , 2020, , .		4
8	Multipath and Doppler Characterization of an Electromagnetic Environment by Massive MDT Measurements From 3G and 4G Mobile Terminals. IEEE Access, 2019, 7, 13024-13034.	2.6	16
9	Fabrication of a ternary PANI@Fe3O4@CFs nanocomposite as a high performance electrode for solid-state supercapacitors. International Journal of Hydrogen Energy, 2019, 44, 26794-26806.	3.8	47
10	Fabrication of microwave absorbing Fe3O4/MWCNTs@CFs nanocomposite by means of an electrophoretic co-deposition process. Synthetic Metals, 2019, 250, 20-30.	2.1	21
11	Smartphones Reference Signal Received Power MDT Radio Measurement Statistical Analysis Reveals People Feelings during Music Events. , 2019, , .		4
12	Statistical Analysis of Interference in a Real LTE Access Network by Massive Collection of MDT Radio Measurement Data from Smartphones. , 2019, , .		7
13	Carbon foam electromagnetic mm-wave absorption in reverberation chamber. Carbon, 2019, 144, 63-71.	5.4	57
14	Effect of graphene oxide and metallic fibers on the electromagnetic shielding effect of engineered cementitious composites. Journal of Building Engineering, 2018, 18, 33-39.	1.6	60
15	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
16	Node of Ranvier as an Array of Bio-Nanoantennas for Infrared Communication in Nerve Tissue. Scientific Reports, 2018, 8, 539.	1.6	33
17	Experimental Analysis of the Aging Effects on Shielding Effectiveness of Cementitious Composites. , 2018, , .		3
18	Electromagnetic characterization of advanced nanostructured materials and multilayer design optimization for metrological and low radar observability applications. Acta Astronautica, 2017, 134, 33-40.	1.7	36

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19	Electromagnetic absorption properties of spacecraft and space debris. <i>Acta Astronautica</i> , 2017, 133, 128-135.	1.7	14
20	A Comparison Between Different Reception Diversity Schemes of a 4G-LTE Base Station in Reverberation Chamber: A Deployment in a Live Cellular Network. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017, 59, 2029-2037.	1.4	42
21	CVD nano-coating of carbon composites for space materials atomic oxygen shielding. <i>Procedia Structural Integrity</i> , 2017, 3, 208-216.	0.3	14
22	Improvement in magnetic and microwave absorption properties of nano-Fe ₃ O ₄ @CFs composites using a modified multi-step EPD process. <i>Applied Surface Science</i> , 2017, 420, 726-739.	3.1	41
23	Matter's Electromagnetic Signature Reproduction by Graded-Dielectric Multilayer Assembly. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 2801-2809.	2.9	44
24	Absorption cross section of building materials at mm wavelength in a reverberation chamber. <i>Measurement Science and Technology</i> , 2017, 28, 024001.	1.4	5
25	Fabrication of nano-Fe ₃ O ₄ 3D structure on carbon fibers as a microwave absorber and EMI shielding composite by modified EPD method. <i>Solid State Sciences</i> , 2017, 64, 51-61.	1.5	66
26	A new advanced railgun system for debris impact study. <i>Procedia Structural Integrity</i> , 2017, 3, 545-552.	0.3	3
27	Three-phase PANI@nano-Fe ₃ O ₄ @CFs heterostructure: Fabrication, characterization and investigation of microwave absorption and EMI shielding of PANI@nano-Fe ₃ O ₄ @CFs/epoxy hybrid composite. <i>Composites Science and Technology</i> , 2017, 150, 65-78.	3.8	97
28	Testing of the Carrier Aggregation Mode for a Live LTE Base Station in Reverberation Chamber. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 3024-3033.	3.9	35
29	Electromagnetic properties of carbon nanotube reinforced concrete composites for frequency selective shielding structures. <i>Construction and Building Materials</i> , 2017, 131, 267-277.	3.2	56
30	Reverberation chambers for testing LTE wireless communication systems. , 2017, , .		8
31	Electromagnetic Characterization of Materials by Vector Network Analyzer Experimental Setup. , 2017, , 195-236.		22
32	High Thickness Kevlar/Carbon Nanostructured Composite for Impact Protection. <i>Aerotecnica Missili & Spazio</i> , 2016, 95, 50-56.	0.5	0
33	Fully Configurable Electromagnetic Wave Absorbers by Using Carbon Nanostructures. , 2016, , .		0
34	Space Carbon-Carbon Thermal Protection System Electromagnetic Characterization in Reverberation Chamber. <i>Aerotecnica Missili & Spazio</i> , 2016, 95, 92-98.	0.5	0
35	Optimization of 4G wireless access network features by using reverberation chambers: Application to high-speed train LTE users. , 2016, , .		8
36	A Neural Network for Quality of Experience Estimation in Mobile Communications. <i>IEEE MultiMedia</i> , 2016, 23, 42-49.	1.5	28

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37	Ballistic and electromagnetic shielding behaviour of multifunctional Kevlar fiber reinforced epoxy composites modified by carbon nanotubes. Carbon, 2016, 104, 141-156.	5.4	79
38	Electromagnetic Shielding of Building Walls: From Roman times to the present age. IEEE Antennas and Propagation Magazine, 2016, 58, 20-31.	1.2	23
39	Carbon micro- and nano-structured multilayer composites for microwave metrological design. , 2016, , .		1
40	Experimental characterization of building material absorption at mmWave frequencies: By using reverberation chamber in the frequency range 50â€“68 GHz. , 2016, , .		5
41	Shielding effectiveness statistical evaluation of random concrete composites. , 2016, , .		10
42	Molding system process for micro- and nano-structured antiballistic multilayered laminates: A numerical and experimental characterization. , 2016, , .		1
43	High frequency propagation in large and multiply connected electromagnetic environments. , 2016, , .		3
44	X-ray attenuation properties of carbon nanotubes filled composite materials. , 2016, , .		4
45	A new technology for production of high thickness carbon/carbon composites for launchers application. Acta Astronautica, 2016, 128, 277-285.	1.7	31
46	Estimation of mobility direction of a people flux by using a live 3G radio access network and smartphones in non-connected mode. , 2015, , .		6
47	Shielding effectiveness of carbon nanotube reinforced concrete composites by reverberation chamber measurements. , 2015, , .		19
48	Coupling Between Multipath Environments Through a Large Aperture. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1463-1466.	2.4	23
49	Measurement of Electromagnetic Field Attenuation by Building Walls in the Mobile Phone and Satellite Navigation Frequency Bands. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 698-702.	2.4	60
50	Advanced concrete materials for EMI reduction in protected environment and IEMI threats suppression. , 2015, , .		10
51	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
52	Densification of High Thickness C/C Composites by Chemical Vapor Infiltration. Procedia Engineering, 2015, 109, 381-389.	1.2	14
53	Microwave behavior of nanostructured composite for low observable nanosatellites. , 2015, , .		0
54	Shell absorbing nanostructure for low radar observable missile. , 2015, , .		3

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55	Over-the-air performance testing of a real 4G LTE base station in a reverberation chamber. , 2014, , .		14
56	4G-LTE base station output power estimation from statistical counters during over-the-air tests in reverberation chamber. , 2014, , .		5
57	Broadband electromagnetic characterization of carbon foam to metal contact. Carbon, 2014, 68, 149-158.	5.4	80
58	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
59	Synthesis and electromagnetic characterization of frequency selective radar absorbing materials using carbon nanopowders. Carbon, 2014, 77, 756-774.	5.4	289
60	Measurements of the Outdoor-To-Indoor Attenuation of Mobile Phone Signal. International Journal on Communications Antenna and Propagation, 2014, 4, 244.	0.2	9
61	Electromagnetic shielding of thermal protection system for hypersonic vehicles. Acta Astronautica, 2013, 87, 30-39.	1.7	66
62	Handset and network quality performance benchmarking for QoE improvement. , 2013, , .		11
63	Determination of the electrical conductivity of carbon/carbon at high microwave frequencies. Carbon, 2013, 54, 76-85.	5.4	42
64	Reduction of satellite electromagnetic scattering by carbon nanostructured multilayers. Acta Astronautica, 2013, 88, 61-73.	1.7	66
65	Stochastic differential equation for wave diffusion in random media. , 2013, , .		2
66	Tunable nanostructured composite with built-in metallic wire-grid electrode. AIP Advances, 2013, 3, .	0.6	29
67	Modeling and measuring of microwave absorbing and shielding nanostructured materials. , 2012, , .		3
68	ABSORBING CROSS SECTION IN REVERBERATION CHAMBER: EXPERIMENTAL AND NUMERICAL RESULTS. Progress in Electromagnetics Research B, 2012, 45, 187-202.	0.7	27
69	Temperature, atomic oxygen and outgassing effects on dielectric parameters and electrical properties of nanostructured composite carbon-based materials. Acta Astronautica, 2012, 76, 127-135.	1.7	24
70	Electromagnetic shielding performance of carbon foams. Carbon, 2012, 50, 1972-1980.	5.4	268
71	Optimization of Multilayer Shields Made of Composite Nanostructured Materials. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 60-69.	1.4	85
72	Broadband Electromagnetic Absorbers Using Carbon Nanostructure-Based Composites. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2633-2646.	2.9	225

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73	Nanostructured composite materials for electromagnetic interference shielding applications. Acta Astronautica, 2011, 69, 747-757.	1.7	83
74	X-Band microwave characterization of carbon-based nanocomposite material, absorption capability comparison and RAS design simulation. Composites Science and Technology, 2010, 70, 400-409.	3.8	429
75	An optimized neural network for monitoring Key Performance Indicators in HSDPA. , 2010, , .		6
76	Ballistic characterization of nanocomposite materials by means of “Coil Gun” electromagnetic accelerator. , 2010, , .		4
77	Modeling of microwave absorbing structure using winning particle optimization applied on electrically conductive nanostructured composite material. , 2010, , .		6
78	Base-station network planning including environmental impact control. IET Communications, 2004, 151, 197.	1.0	18