

PERSONAL INFORMATION

EUROPASS CURRICULUM VITAE (updated 2025)

**Surname(s) / First
name(s)**
Address(es)
Telephone(s)
E-mail
Nationality
Date of birth

Micheli, Davide

DESIRED EMPLOYMENT

Scientific Research

- Interests:
 - Electromagnetism and Radar Absorbing Structures
 - Nanotechnologies
 - Astronautic
 - Telecommunication

QUALIFICAT.

- In 2014, He obtains the national scientific qualification as a university professor, associate, in the sector (09A1): Aerospace Aeronautic and Naval Engineering

WORK EXPERIENCE

Date
**Name and address
of employer**
**Type of business or
sector**
**Type of
employment**

from 1989 -to 2025

Telecom Italia

TILAB (Telecom Italia LAB)

Wireless radio access Innovation and Engineering

Main activities and responsibilities

- Engineering of the 2G to 5G Radio Access Network
- Electromagnetic Propagation through matters
- Quality Responsible
- In his work he deals with innovation and research. He is the scientific director of many university research collaborations between various universities and Telecom Italia. He is also the scientific director of a highly specialized Joint Laboratory located at the Polytechnic University of Marche where research activities are carried out in the field of telecommunications and electromagnetic propagation (see link: https://www.ansa.it/marche/notizie/2018/04/14/univpm-tim-laboratorio-telefonia-mobile_4d605191-6459-4277-b451-3a422ecb98c2.html)
- In recent years, he has begun to deepen his work on machine learning techniques, in particular on statistical electromagnetic Big-Data available in the radio access network in the context of issues related to smart cities.

Date from 2007 -to 2025**Name and address of employer**

Sapienza University of Rome: Astronautic Electric and Engineering Department and Aeronautic Mechanic and Engineering Department

Type of business or sector

Research

Tipo di impiego

Doctorate and Post Doctorate Researcher and self-employed work assignment occasional collaboration contract

Main activities and responsibilities

- Scientific participation in international and national research projects, admitted to funding on the basis of competitive calls that include peer review
- --(C.tto n°. 1209) relativo al PNR a2008.74 per lo sviluppo di un "Sistema di Protezione Balistica basato su Fluidi a Comportamento Non Newtoniano Nanocaricati con Particelle Solide (LAST)"
- Piano Nazionale di Ricerca Militare (PNRM) sostenuto dal Ministero della Difesa, (C.tto n° 636 di Rep del 28/12/2011), Progetto di Ricerca n. a.2010.63 denominato "Continuazione Studio di Tecnologie di bassa osservabilità applicate al Velivolo M-346 e suoi derivati".
- ASA phase B2 n.1550003357 del 16/11/2011 "ASA Advanced Structural Assembly - Phase B2", finanziato dall'Agenzia Spaziale Italiana (ASI)
- Studio finanziato dall'ESA denominato "Thermal Blanket with Low RF Reflectivity (Artes 5.1 Ref: 5B.106)
- Misure elettro-magnetiche e di prestazione per comunicazioni terra-satellite moduli "Internet-of-Things"

Academic Awards

Electromagnetic Propagation innovation and application

- From 2016 to 2024 he participated in a research project on the transmission of information and signals along nerve fibers. The transversal research group formed by a doctor, a molecular biologist, a physicist, and myself, theorized a new way of transmitting information that is not only electrical in nature as already known but also electromagnetic in nature. This approach also explains the large amount of information that the brain is able to process and transmit along axons. The research gave rise to two articles in journals of the Nature group (see below). In the first, the theoretical model of electromagnetic propagation along the axon is

published and in the second, the theory is tested with an experiment at the Gemelli Hospital Laboratory on a rat nerve. The study conducted is of particular interest as it provides a physical/electromagnetic explanation of the need for Myelin as a sheath around the axon to function similarly to an optical fiber. Natural evolution has designed it to increase the amount of information transmitted while reducing the size of the axons and thus also allowing for better energy efficiency. The two published articles are displayed below:

1) <https://www.nature.com/articles/s41598-017-18866-x>

The screenshot shows a web browser displaying a Nature article. The URL is [nature.com/articles/s41598-017-18866-x](https://www.nature.com/articles/s41598-017-18866-x). The article is titled "Node of Ranvier as an Array of Bio-Nanoantennas for Infrared Communication in Nerve Tissue" and was published on 11 January 2018. The authors listed are Andrea Zangari, Davide Micheli, Roberta Galeazzi, and Antonio Tozzi. The article is part of Scientific Reports, volume 8, article number 539 (2018). It has 5584 accesses, 30 citations, and 17 Altmetric mentions. The abstract begins with "Electromagnetic radiation, in the visible and infrared spectrum, is increasingly being investigated for its possible role in the most evolved brain capabilities. Beside experimental evidence of electromagnetic cellular interactions, the possibility of light propagation in the axon has been recently demonstrated using computational modelling, although an explanation of its source is still not completely understood. We studied electromagnetic radiation onset and propagation at optical frequencies in myelinated axons under the"

2) <https://www.nature.com/articles/s41598-021-82622-5>

The screenshot shows a web browser displaying a Nature article. The URL is [nature.com/articles/s41598-021-82622-5](https://www.nature.com/articles/s41598-021-82622-5). The article is titled "Photons detected in the active nerve by photographic technique" and was published on 04 February 2021. The authors listed are Andrea Zangari, Davide Micheli, Roberta Galeazzi, Antonio Tozzi, Vittoria Balzano, Gabriella Bellavia, and Maria Emiliana Caristo. The article is part of Scientific Reports, volume 11, article number 3022 (2021). It has 4538 accesses, 7 citations, and 8 Altmetric mentions. The abstract begins with "The nervous system is one of the most complex expressions of biological evolution. Its high performance mostly relies on the basic principle of the action potential, a sequential"

This article has been ranked by Nature magazine as a Top 100 in Neuroscience: (*This collection highlights our most downloaded* neuroscience papers published in 2021. Featuring authors from around the world, these papers showcase valuable research from an international community. *Data obtained from SN Insights, which is based on Digital Science's Dimensions*).

In 2023 he received another recognition from the Nature group

magazine regarding the publication of a scientific article of which the email received is reported:

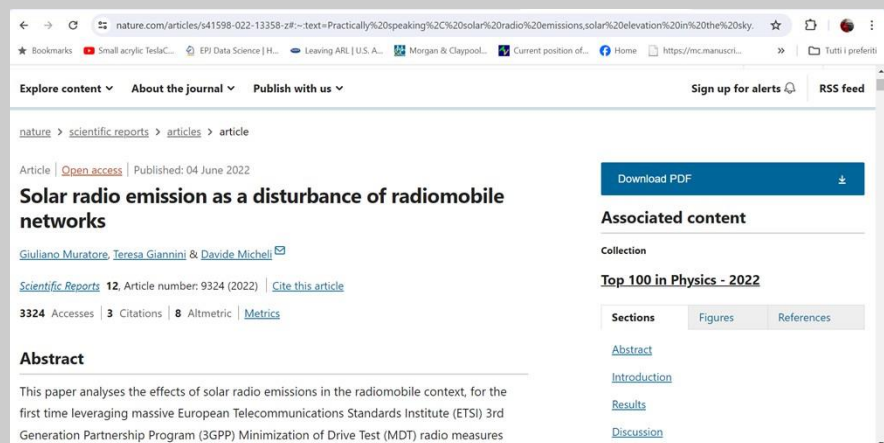
Nature Portfolio: Scientific and Medical Journals, Products and Services

Your article is in the **Top 100 Physics Scientific Reports papers published in 2022**

Dear Dr. Micheli,

It is our great pleasure to inform you that your research article [Solar radio emission as a disturbance of radiomobile networks](#) received 1866 article downloads in 2022, placing it as **one of the top 100** downloaded Physics papers for *Scientific Reports* in 2022.*

Scientific Reports published **more than 980 Physics papers in 2022**, and so a position in the top 100 most downloaded articles is an extraordinary achievement — your science is of real value to the research community. You can access all the most downloaded articles within this category by visiting the collection page below:



In particular, this article, carried out in collaboration with the National Institute of Astrophysics (INAF), Rome, Italy, has allowed us to study a method to analyze the interference caused by electromagnetic phenomena emitted by the sun on mobile telephony. In short, by analyzing the levels of signals received by mobile terminals and radio stations, before and during an event on the Sun, we have measured the degree of interference and disturbance that the latter is able to bring to the mobile telephony network.

EDUCATION AND TRAINING

Dates
Name and type of organisation providing education and training
Principal subjects / occupational skills covered

from 2011 - to 2018

University of Rome "Sapienza"

Astronautic Electrical and Energy Engineering Department: [link](#)

He is currently collaborating with "Sapienza" University of Rome, where his research activities are focused on **electromagnetic wave absorbers** by using nanostructured composite materials. In particular, he uses an interesting approach to the absorber's design in which different branches

of science are applied and where all of them are used to optimize the "quasi perfect absorber": nanotechnology, electromagnetic wave propagation theory, composite materials manufacturing and evolutionary computation. The research on **electromagnetic wave absorber** has been further extended to concrete composite materials reinforced with carbon nanomaterials and other kind of nanoparticles for civil Application.

The research field has now updated with the study of linear electromagnetic accelerators. In particular, he built a [RAILGUN](#) for the ballistic characterization of composite nanostructured materials (<https://youtu.be/-Zy9O-qq0Ck?si=fAFaXkB3iLSWsoyv>).

He is the main author of about 150 scientific publications covering also the use of nanomaterials and polymer matrix for the electromagnetic absorption and shielding structures. He is a reviewer for several journals.

Title of qualification awarded

Post Doc Researcher

Specialization

RADAR ABSORBING STRUCTURE USING NANOMATERIAL AND EVOLUTIONARY COMPUTATION

Dates from 2010 - to 2011

Name and type of organisation providing education and training

University of Rome "Sapienza"

Astronautic Electrical and Energy Engineering Department: [link](#)

Principal subjects / occupational skills covered

MASTER ON "COMPOSITES AND NANOTECHNOLOGIES FOR AEROSPACE"

Title of qualification awarded

Master

Level in national or international classification

110/110

Dates from 2007 - to 2010

Name and type of organisation providing education and training

University of Rome "Sapienza"

Astronautic Electrical and Energy Engineering Department: [link](#)

Principal subjects / occupational skills covered

Carbon Nanotubes and Nanotechnologies in the Sector of the Aerospace Engineering, with particular emphasis on **Microwave Absorbing Materials**

Title of qualification awarded

Ph.D.

Level in national or international classification

Excellent

| | |
|---|---|
| Dates | from 2002 - to 2007 |
| Name and type of organisation providing education and training | University of Rome "Sapienza" Department of Aerospace and Astronautics Engineering: link |
| Principal subjects / occupational skills covered | Satellites, Orbital Platform and Space Habitat, with particular emphasis on Space Radiation Protection |
| Title of qualification awarded | III level Laurea, in Astronautics Engineering |
| Level in national or international classification | M.S./B.S., <i>cum laude</i> , Astronautics Engineering December 2007. Final grade 110/110. |

| | |
|---|---|
| Dates | from 1990 - to 2001 |
| Name and type of organisation providing education and training | University of Ancona Department of Electronics and Telecommunications Engineering: link |
| Principal subjects / occupational skills covered | Electronic and Telecommunication Engineering, with particular emphasis on Genetic Algorithms applied in design and optimization of Mobile Phone Radio Access Networks |
| Title of qualification awarded | Laurea (equivalent Degree + Master) in Electronics of Telecommunications |
| Level in national or international classification | M.S./B.S., Electronics and Telecommunications Engineering; December 2001. |

| | |
|---|---|
| Dates | from 1981 - to 1986 |
| Name and type of organisation providing education and training | Secondary school: Istituto Tecnico Industriale Statale Vito Volterra in Torrette (Ancona): link |
| Principal subjects / occupational skills covered | Electrical Applications, with particular emphasis on pressure sensors and acquisition data systems |
| Title of qualification awarded | Diploma |

Dates **from 1990 - to 2025**

Principal subjects / occupational skills covered

- FEM electromagnetic simulation using COMSOL suite program
- Satellites telecommunication systems
- GSM and UMTS Radio Access Network systems
- IP networking
- PCM coding
- HTML programming language
- Web design
- GPS system

Title of qualification awarded

It must be understood as continuous updating on the job

PERSONAL SKILLS AND COMPETENCES

Mother tongue(s)

Italian

Other language(s)

English

[Dav de Micheli Eurpass Lenqu age Passport](#)

Self-assessment

Understanding

Speaking

Writing

Listening

Reading

Spoken interaction

Spoken production

B2 Independent user

B2 Independent user

B2 Independent user

B2 Independent user

B2 Independent user

English

TOEIC exam

- Score : 798

SOCIAL SKILLS AND COMPETENCES

- Relationship skills have been developing in several projects which requires integration with other people who are working on other branches and/or in other Companies.
- Teaching activity is useful to optimize communication skills

ORGANISATIONAL SKILLS AND COMPETENCES

- Acquired in management of human resources
- From 2011 to 2015 he participated in the Mars-One project as an astronaut for a mission to the planet Mars and was selected among 200,000 candidates (see article in L'Espresso: <https://lespresso.it/c/idee/2014/4/22/andiamo-a-vivere-su-marte-per-sempre/18142>). In 2016, after learning more details about the Mars-One Mission project, he resigned.

TECHNICAL AND COMPUTER SKILLS AND COMPETENCES

Abilities in layout of technical/scientific documentation, acquired:

- In professional activity: technical, management, and teaching type
- At the university in publications and documentation preparation

Knowledge of the following software

- COMSOL Multiphysics

- Windows Office Family
- Autocad
- Matlab

Mechanical ability on metals machining

ARTISTIC SKILLS AND COMPETENCES

- He studied liturgical church organ
- He plays keyboards and Electronic Synthesizer
- He has been playing martial arts (judo) for about 35 years. Hi is a IV DAN Judo

OTHER SKILLS AND COMPETENCES

English language competences

- Intensive course in the foreign countries at the Berlitz School in London (2 weeks)
- Course in the foreign countries at the San Diego Miramar College (2 weeks)
- Intensive course in Italy at the Teach-In school in Rome (1 week)
- Course in Italy at the Wall Street Institute (2 years)

DRIVING LICENCE

- Italian Driver license B type

PATENTS

<https://worldwide.espacenet.com/patent/search?q=Davide%20Micheli>

Davide Micheli has about 13 Patents. Below are reported.

1. Method and System for Determining Road Traffic Jams Based on Information Derived from a PLMN

US2010285772A1 (B2) • 2010-11-11 •

MICHELI DAVIDE

Earliest priority: 2007-12-27 • Earliest publication: 2009-07-09

A method of estimating traffic jams on a roads network includes receiving information from at least one cellular PLMN covering a geographic region wherein at least one road of the roads network to be monitored is located. The information includes data related to call traffic handled by the cellular PLMN in an at least one area of the geographic region, and an indication related to a mobility of mobile terminals into/out of the area. The method may further include providing an indication of traffic jam in the at least one road in case the call traffic handled by the cellular PLMN in the at least one area exceeds a first threshold and the indication related to the mobility of mobile terminals into/out of the area trespasses a

second threshold.

Select result

3. DISPOSITIVO ASSORBITORE DI ONDE ELETTROMAGNETICHE A FREQUENZA DI ASSORBIMENTO REGOLABILE

ITRM20120569A1 • 2014-05-17 •

UNIV ROMA LA SAPIENZA

Earliest priority: 2012-11-16 • Earliest publication: 2014-05-17

No abstract available

Select result

4. TECNICA DI PROGETTO ED OTTIMIZZAZIONE DELLA RETE DI ACCESSO RADIO GSM.

ITRM20010718A1 • 2003-06-06 •

TELECOM ITALIA MOBILE SPA [IT]

Earliest priority: 2001-12-06 • Earliest publication: 2003-06-06

No abstract available

Select result

5. METHOD FOR CHARACTERIZATION OF PATHS TRAVELLED BY MOBILE USER TERMINALS

US2024196251A1 • 2024-06-13 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2021-04-14 • Earliest publication: 2022-10-14

Method for characterization of paths travelled by mobile user terminals, comprising: determining a geographical area of interest; detecting the presence of a plurality of mobile user terminals in said geographical area of interest. The method further comprises, for each of said mobile user terminals: receiving over time a plurality of information signals, each information signal including: a geographical position of said mobile user terminal, a time reference associated with said geographical position and at least one of a temporary identifier and a session identifier; based on said information signals, determining a path travelled by said mobile user terminal; calculating one or more indicators associated with said path, said one or more indicators being indicative of

morphologic and dynamic features of said path; providing a characterization of said paths, based on said one or more indicators.

Select result

6. METHOD AND SYSTEM FOR GENERATING REFERENCE DATA FOR TRAFFIC CONDITION PREDICTION, AND METHOD AND SYSTEM FOR PREDICTING TRAFFIC CONDITIONS

US2025140106A1 • 2025-05-01 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2021-09-08 • Earliest publication: 2023-03-08

A method, system, and devices for generating reference data for traffic condition prediction. The method includes determining a zone of interest and a detection zone associated with the zone of interest and detecting the presence of a plurality of mobile terminals in the detection zone. Based on at least a first movement feature of the user terminals, calculating one or more predictors associated with geographical positions of the user terminals, receiving a traffic signal representative of an objective traffic condition in said zone of interest, and determining reference data, based on the calculated predictors and the objective traffic condition, for correlating the predictors and the objective traffic condition.

Select result

7. METHOD AND SYSTEM FOR DETERMINING INDOOR LOCATIONS OF USER DEVICES WITHIN A CELLULAR NETWORK

US2024349237A1 • 2024-10-17 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2021-07-12 • Earliest publication: 2023-01-12

A method and system for determining, based on event tracing associated with user devices connected to a cellular network, locations of the user devices in indoor environments (hereinafter, indoor locations), for example in order to determine quality of service maps of (e.g., urbanized) indoor environments of a geographic area covered by the cellular network.

Select result

8. DISPOSITIVO IN MATERIALE COMPOSITO NANO-STRUTTURATO A MEMORIA DI RESISTENZA ELETTRICA

MULTI-STATO REGOLABILE

IT201800005078A1 • 2019-11-04 •

No applicant available

Earliest priority: 2018-05-04 • Earliest publication: 2019-11-04

No abstract available

Select result

9. METHOD AND SYSTEM FOR GENERATING REFERENCE DATA ASSOCIATED TO WEATHER CONDITIONS, METHOD AND SYSTEM FOR DETERMINING WEATHER CONDITIONS, AND METHOD AND SYSTEM FOR CONTROLLING A RADIO ACCESS NETWORK

US2024251255A1 • 2024-07-25 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2021-05-14 • Earliest publication: 2022-11-14

Generating reference data associated to weather conditions by determining a geographical area of interest; receiving, from wireless devices wirelessly connected to a Radio Access Network (RAN) measurement parameters representative of measurements of radio quality of the wireless connection between said wireless devices and the RAN, wherein said wireless devices are located in said area of interest, said measurement parameters being associated with respective time references; for each time reference or set of time references, determining reference data, associated to said time reference or set of time references, by performing an analysis of said measurement parameters; receiving a weather signal, representative of objective weather conditions in said area of interest at a time corresponding to said time reference of said set of time references; storing said reference data in association with the respective objective weather conditions associated to the same time reference or set of time references.

Select result

11. METHOD FOR MANAGING A RADIO ACCESS COMMUNICATIONS NETWORK, AND RADIO ACCESS COMMUNICATIONS SYSTEM OPERATING ACCORDING TO SAID METHOD

US2023262486A1 • 2023-08-17 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2020-07-20 • Earliest publication: 2022-01-**20**

Method for managing a radio access communications network, comprising: receiving, from each of a plurality of mobile user terminals in a determined geographical area, at least one report signal including: a first data item representative of a geographical position of the mobile user terminal; a second data item representative of a power at which transmission signals, sent by the radio access communications network, are received by the mobile user terminal. The method further comprises making first comparisons between a power at which the transmission signals are transmitted, and the second data items; determining a radio coverage map of the determined geographical area based on the first data items and the first comparisons; making a second comparison between the radio coverage map and reference data; applying modifications to the radio access communications network based on the second comparison.

Select result

12.ANTENNA VIBRATION MONITORING SYSTEM

EP4497173A1 • 2025-01-29 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2022-03-23 • Earliest publication: 2023-09-23

No abstract available

Select result

15.OPTIMIZATION OF THE CONFIGURATION OF A MOBILE COMMUNICATIONS NETWORK

EP4480274A1 • 2024-12-25 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2022-02-15 • Earliest publication: 2023-08-15

No abstract available

Select result

17.METHOD AND SYSTEM FOR DYNAMICALLY VARYING REFERENCE SIGNALS' POWER IN A MOBILE RADIO NETWORK

US11019577B2 (A1) • 2021-05-25

TELECOM ITALIA SPA [IT]

Earliest priority: 2015-10-30 • Earliest publication: 2017-05-04

A method of dynamically varying a power of a Reference Signal irradiated by a radio base station of a radio mobile network includes having a network entity monitoring a performance indicator associated with an area. The radio base station provides communication services to User Equipment located in a respective area served by the radio base station

ANNEX

The following table reports the main scientific publication of Davide Micheli

PUBLICATIONS [Google Scholar Citation Index](#)

In 2012 he published a book: ISBN-10 3846559393 on microwave absorber:

Title: **Radar Absorbing Materials and Microwave Shielding Structures Design: By using Multilayer Composite Materials, Nanomaterials and Evolutionary Computation**

<https://www.amazon.com/Absorbing-Materials-Microwave-Shielding-Structures/dp/3846559393>

| Article TITLE and Authors | N° cit | year |
|---|--------|------|
| <p>X-Band microwave characterization of carbon-based nanocomposite material, absorption capability comparison and RAS design simulation D Micheli, C Apollo, R Pastore, M Marchetti Composites Science and Technology 70 (2), 400-409</p> | 540 | 2010 |
| <p>Synthesis and electromagnetic characterization of frequency selective radar absorbing materials using carbon nanopowders D Micheli, A Vricella, R Pastore, M Marchetti Carbon 77, 756-774</p> | 344 | 2014 |
| <p>Electromagnetic shielding performance of carbon foams F Moglie, D Micheli, S Laurenzi, M Marchetti, VM Primiani Carbon 50 (5), 1972-1980</p> | 316 | 2012 |
| <p>Broadband electromagnetic absorbers using carbon nanostructure-based composites D Micheli, R Pastore, C Apollo, M Marchetti, G Gradoni, VM Primiani, ... IEEE Transactions on Microwave Theory and Techniques 59 (10), 2633-2646</p> | 292 | 2011 |
| <p>Electromagnetic characterization and shielding effectiveness of concrete composite reinforced with carbon nanotubes in the mobile phones frequency band D Micheli, R Pastore, A Vricella, RB Morles, M Marchetti, A Delfini, ... Materials Science and Engineering: B 188, 119-129</p> | 144 | 2014 |
| <p>Optimization of multilayer shields made of composite nanostructured materials D Micheli, C Apollo, R Pastore, D Barbera, RB Morles, M Marchetti, ... IEEE transactions on electromagnetic compatibility 54 (1), 60-69</p> | 120 | 2011 |
| <p>Nanostructured composite materials for electromagnetic interference shielding applications D Micheli, C Apollo, R Pastore, RB Morles, S Laurenzi, M Marchetti Acta Astronautica 69 (9-10), 747-757</p> | 117 | 2011 |
| <p>Ballistic and electromagnetic shielding behaviour of multifunctional Kevlar fiber reinforced epoxy composites modified by carbon nanotubes D Micheli, A Vricella, R Pastore, A Delfini, A Giusti, M Albano, M Marchetti, ... Carbon 104, 141-156</p> | 115 | 2016 |
| <p>Measurement of electromagnetic field attenuation by building walls in the mobile phone and satellite navigation frequency bands D Micheli, A Delfini, F Santoni, F Volpini, M Marchetti</p> | 104 | 2014 |

| Article TITLE and Authors | N° cit | year |
|---|--------|------|
| IEEE antennas and wireless propagation letters 14, 698-702 | | |
| <p>Effect of graphene oxide and metallic fibers on the electromagnetic shielding effect of engineered cementitious composites</p> <p>A Mazzoli, V Corinaldesi, J Donnini, C Di Perna, D Micheli, A Vricella, ...</p> <p>Journal of Building Engineering 18, 33-39</p> | 89 | 2018 |
| <p>Electromagnetic properties of carbon nanotube reinforced concrete composites for frequency selective shielding structures</p> <p>D Micheli, A Vricella, R Pastore, A Delfini, RB Morles, M Marchetti, ...</p> <p>Construction and Building Materials 131, 267-277</p> | 89 | 2017 |
| <p>Broadband electromagnetic characterization of carbon foam to metal contact</p> <p>D Micheli, RB Morles, M Marchetti, F Moglie, VM Primiani</p> <p>Carbon 68, 149-158</p> | 86 | 2014 |
| <p>Electromagnetic shielding of thermal protection system for hypersonic vehicles</p> <p>M Albano, D Micheli, G Gradoni, RB Morles, M Marchetti, F Moglie, ...</p> <p>Acta Astronautica 87, 30-39</p> | 83 | 2013 |
| <p>Reduction of satellite electromagnetic scattering by carbon nanostructured multilayers</p> <p>D Micheli, R Pastore, G Gradoni, VM Primiani, F Moglie, M Marchetti</p> <p>Acta Astronautica 88, 61-73</p> | 80 | 2013 |
| <p>Federated learning of explainable AI models in 6G systems: Towards secure and automated vehicle networking</p> <p>A Renda, P Ducange, F Marcelloni, D Sabella, MC Filippou, G Nardini, ...</p> <p>Information 13 (8), 395</p> | 74 | 2022 |
| <p>Carbon foam electromagnetic mm-wave absorption in reverberation chamber</p> <p>R Pastore, A Delfini, D Micheli, A Vricella, M Marchetti, F Santoni, ...</p> <p>Carbon 144, 63-71</p> | 66 | 2019 |
| <p>Matter's electromagnetic signature reproduction by graded-dielectric multilayer assembly</p> <p>D Micheli, R Pastore, A Vricella, M Marchetti</p> <p>IEEE Transactions on Microwave Theory and Techniques 65 (8), 2801-2809</p> | 55 | 2017 |
| <p>A comparison between different reception diversity schemes of a 4G-LTE base station in reverberation chamber: A deployment in a live cellular network</p> <p>M Barazzetta, D Micheli, L Bastianelli, R Diamanti, M Totta, P Obino, ...</p> <p>IEEE Transactions on Electromagnetic Compatibility 59 (6), 2029-2037</p> | 54 | 2017 |
| <p>Electromagnetic characterization of materials by vector network analyzer experimental setup</p> | 54 | 2017 |

| Article TITLE and Authors | N° cit | year |
|--|--------|------|
| D Micheli, R Pastore, A Vricella, A Delfini, M Marchetti, F Santoni Spectroscopic methods for nanomaterials characterization, 195-236 | | |
| Node of Ranvier as an array of bio-nanoantennas for infrared communication in nerve tissue A Zangari, D Micheli, R Galeazzi, A Tozzi Scientific reports 8 (1), 539 | 52 | 2018 |
| Power boosting and compensation during OTA testing of a real 4G LTE base station in reverberation chamber D Micheli, M Barazzetta, F Moglie, VM Primiani IEEE Transactions on Electromagnetic Compatibility 57 (4), 623-634 | 50 | 2015 |
| Radar absorbing materials and microwave shielding structures design D Micheli Radar Absorbing Materials and Microwave Shielding Structures Design, 1-477 | 49 | 2012 |
| Determination of the electrical conductivity of carbon/carbon at high microwave frequencies G Gradoni, D Micheli, VM Primiani, F Moglie, M Marchetti Carbon 54, 76-85 | 48 | 2013 |
| A neural network for quality of experience estimation in mobile communications L Pierucci, D Micheli IEEE MultiMedia 23 (4), 42-49 | 44 | 2016 |
| Testing of the carrier aggregation mode for a live LTE base station in reverberation chamber D Micheli, M Barazzetta, C Carlini, R Diamanti, VM Primiani, F Moglie IEEE Transactions on Vehicular Technology 66 (4), 3024-3033 | 42 | 2016 |
| Carbon based nanomaterial composites in RAM and microwave shielding applications D Micheli, R Pastore, C Apollo, M Marchetti, G Gradoni, F Moglie, ... 2009 9th IEEE Conference on Nanotechnology (IEEE-NANO), 226-235 | 41 | 2009 |
| Electromagnetic characterization of advanced nanostructured materials and multilayer design optimization for metrological and low radar observability applications D Micheli, R Pastore, A Delfini, A Giusti, A Vricella, F Santoni, M Marchetti, ... Acta Astronautica 134, 33-40 | 40 | 2017 |
| Shielding effectiveness of carbon nanotube reinforced concrete composites by reverberation chamber measurements D Micheli, M Marchetti, R Pastore, A Vricella, G Gradoni, F Moglie, ... 2015 International Conference on Electromagnetics in Advanced Applications ... | 37 | 2015 |
| Absorbing cross section in reverberation chamber: experimental | 37 | 2012 |

| Article TITLE and Authors | N° cit | year |
|---|--------|------|
| and numerical results G Gradoni, D Micheli, F Moglie, VM Primiani Progress In Electromagnetics Research B 45, 187-202 | | |
| A new technology for production of high thickness carbon/carbon composites for launchers application M Albano, A Delfini, R Pastore, D Micheli, M Marchetti Acta Astronautica 128, 277-285 | 36 | 2016 |
| Unraveling pedestrian mobility on a road network using ICTs data during great tourist events C Mizzi, A Fabbri, S Rambaldi, F Bertini, N Curti, S Sinigardi, R Luzi, ... EPJ Data Science 7 (1), 44 | 35 | 2018 |
| Base-station network planning including environmental impact control G Cerri, R De Leo, D Micheli, P Russo IEE Proceedings-Communications 151 (3), 197-203 | 35 | 2004 |
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