


PERSONAL INFORMATION **Gino Sorbello**

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 ORCID [0000-0002-5081-3486](https://orcid.org/0000-0002-5081-3486)

Nationality Italian

WORK EXPERIENCENovember 2014 – Present **Associate Professor**

University of Catania (Italy).

Associate Professor of Electromagnetic Fields (ING-INF/02) at the Department of Electrical, Electronics, and Computer Engineering (DIEEI).

October 2002 – October 2014 **Assistant Professor**

University of Catania (Italy).

Assistant Professor of Electromagnetic Fields (ING-INF/02) at the Department of Electrical, Electronics, and Computer Engineering (DIEEI) former Department of Computer Engineering and Telecommunications (DIIT).

January 2000 – January 2002 **Research Fellow at CNR**

National Research Council (CNR) – “Centro di Elettronica Quantistica e Strumentazione Elettronica” — Politecnico di Milano (Italy).

CNR research grant under “Progetto Finalizzato Madess II”.

VISITING POSITIONDecember 1999 – March 2000 **Visiting scientist**

Optical Sciences Center (OSC), University of Arizona, Tucson, (USA)

Project “Design and fabrication of integrated active devices on novel glass substrates”

November 1998 to April 1999 **Visiting scientist**

Optical Sciences Center (OSC), University of Arizona , Tucson, (USA)

Research activity at the OSC, in the framework of the Phd, for the theoretical and experimental study of active dielectric waveguides.

ADDITIONAL WORK EXPERIENCEJune 1996 – November 1996 **Work experience in the field of information technology**

“Gultronics” IT company (London).

EDUCATIONFebruary 2000 **PhD degree in “Ingegneria Elettronica e delle Comunicazioni”** **ISCED 6**

Politecnico di Milano (Italy)

PhD Thesis: “Erbium-Ytterbium solid-state lasers and amplifiers operating in the 1.5-micron wavelength region for applications to optical communications”

November 1996 – October 1999 **PhD school at Politecnico di Milano**

February 1996 – June 1996 **Internship**

“Gruppo Amplificatori Ottici ITALTEL”, Unità Componenti Fotonici – Settimo Milanese (Italy).

January 1996 **MSc (“Laurea”) degree in Electronics Engineering**

University of Catania

MSc Thesis: “Modello dell’amplificatore ottico ad Er³⁺– Yb³⁺ in fibra e sua validazione sperimentale”, relatori il Prof. Paolo Laporta (Politecnico di Milano) e il Prof. Sebastiano Barbarino (Università degli Studi di Catania)

HONORS

October 2002 – Present Scientific coordinator of the Electromagnetic group of University of Catania. Since 2002, he equipped and directed the Laboratory of electromagnetics and microwaves used for research and teaching activities.

2003 – Present Member of the Scientific Council of SIEM (Società Italiana di Elettromagnetismo), as leader of Catania Research Unit.

May 2020 Habilitation (Abilitazione Scientifica Nazionale) as Full Professor in Electromagnetics, with unanimous positive evaluation from all the five Referees.

BIBLIOMETRIC SUMMARY DATA

Publications:

- Indexed publications: more than 160 source Scopus
- Total citations: 2306 source scholar.google.com (1825 source Scopus)
- H-index: 26 source scholar.google.com (23 source Scopus)

Please see updated publication list, citations and h-index at:

<https://scholar.google.com/citations?user=s8ntAeYAAAAJ>

<https://www.scopus.com/authid/detail.uri?authorId=6701852646>

RESEARCH INTERESTS

Research interest span across various fields of electromagnetism:

- compact planar antennas, ultra-broadband antenna design and characterization, antennas and antenna array synthesis;
- inverse problems and microwave imaging;
- microwave components, electromagnetic band gap devices;
- computational electromagnetics;
- electromagnetic wave propagation in magnetized plasmas for heating and diagnostics;
- optical amplifiers and single-mode solid-state lasers, integrated optics;
- ion sources and linear particle accelerators.

ORGANIZATION OF CONFERENCES

2011 **Local organizer of GTTI/CNIT/SIEm/URSI meeting**

Joint GTTI/CNIT/SIEm/URSI meeting. Messina-Taormina June, 20-23, 2011.

2022 **Organizing committee member**

XXI Mediterranean Microwave Symposium 2022 (MMS2022), Pizzo Calabro (Cosenza), May 9-13, 2022

2022 **General Chair of XXIV Riunione Nazionale di Elettromagnetismo**

XXIV Riunione Nazionale di Elettromagnetismo. Catania, September, 18-21, 2022.

TEACHING

- Current at University of Catania
- “Microwave Engineering” (9 CFU), Master’s Degree in Telecommunications Engineering, a.y. 2023-24 (7 CFU).
 - “Transmission Lines and Antennas” (9 CFU), Master’s Degree in Telecommunications Engineering, a.y. 2023-24 (2 CFU).
 - “Antennas and Radiopropagation” (9 CFU), Master’s Degree in Electronic Engineering, a.y. 2023-24 (5 CFU).
 - “Elettromagnetismo Ambientale e Bioelettromagnetismo” (6 CFU), Degree in Scienze Biologiche, a.y. 2023-24 (3 CFU).
- Past at University of Catania
- “Microwave Engineering” (9 CFU), Master’s Degree in Telecommunications Engineering, a.y. 2020-21, 2021-22, 2022-23.
 - “Antennas and Radiopropagation” (9 CFU), Master’s Degree in Electronic Engineering, a.y. 2022-23 (6 CFU), 2019-20 (9 CFU).
 - “Transmission Lines and Antennas” (9 CFU), Master’s Degree in Telecommunications Engineering, a.y. 2021-22 (6 CFU).
 - “Fisica II” (9 CFU), Bachelor’s Degree in Electronic Engineering, a.y. 2019-20.
 - “Antenne e Radiopropagazione” (9 CFU), Laurea Magistrale in Ingegneria delle Telecomunicazioni e Laurea Magistrale in Ingegneria Elettronica, a.y. 2018-19.
 - “Campi Elettromagnetici e Propagazione” (9 CFU), Laurea Magistrale in Ingegneria delle Telecomunicazioni e Laurea Magistrale in Ingegneria Elettronica, a.y. 2016-17, 2017-18, 2017-18.
 - “Ingegneria delle Microonde” (9 CFU), Laurea Magistrale in Ingegneria delle Telecomunicazioni. a.y. 2015-16 and 2017-18.
 - “Campi Elettromagnetici”, (9 CFU) Laurea Magistrale in Ingegneria delle Telecomunicazioni e Laurea magistrale in Ingegneria Elettronica, a.y. 2012-13.
 - “Propagazione e Laboratorio di Antenne” (9 CFU), Laurea Magistrale in Ingegneria delle Telecomunicazioni a.y. 2011-12, 2012-13, 2013-14, 2014-15.
 - “Campi Elettromagnetici” (9 CFU), Laurea Magistrale in Ingegneria delle Telecomunicazioni e Laurea magistrale in Ingegneria Elettronica, a.y. 2012-13.
 - “Propagazione e Laboratorio di Antenne” (9 CFU), Laurea Magistrale in Ingegneria delle Telecomunicazioni a.y. 2011-12, 2012-13, 2013-14, 2014-15.
 - “Campi Elettromagnetici” (9 CFU), Laurea Magistrale in Ingegneria Elettronica, a.y. 2010-11
 - “Laboratorio di Antenne” (3 CFU), Laurea Specialistica in Ingegneria delle Telecomunicazioni e Laurea Specialistica in Ingegneria Microelettronica, a.y. 2005-06, 2006-07, 2007-08, 2008-09, 2009-10, 2010-11.
 - “Propagazione Guidata” (6 CFU), Laurea Specialistica in Ingegneria delle Telecomunicazioni, a.y. 2004-05, 2005-06, 2006-07, 2007-08, 2008-09, 2009-10.
 - “Campi Elettromagnetici” (6 CFU), Laurea in Ingegneria Elettronica (Lo-Z), a.y. 2004-05.
 - “Antenne” (6 CFU), Laurea in Ingegneria delle Telecomunicazioni, a.y. 2004-05, 2005-06, 2006-07, 2008-09, 2009-10, 2010-11, 2011-12.
 - “Campi Elettromagnetici (6 CFU) Laurea in Ingegneria delle Telecomunicazioni, a.y. 2002-03, 2003-04.
 - “Campi Elettromagnetici (9 CFU) Laurea in Ingegneria Elettronica (M-Z), a.y. 2002-03, 2003-04.
 - “In charge of the experimental laboratory of Microonde”, corso di Laurea Ingegneria Elettronica, Università degli studi di Catania, a.y. 2002-03.
- At University Kore of Enna
- Campi Elettromagnetici (4 CFU), Laurea Magistrale in Ingegneria delle Telecomunicazioni a.y. 2007-08.
 - Campi Elettromagnetici, Antenne e Laboratorio (12 CFU), Laurea Magistrale in Ingegneria delle Telecomunicazioni, a.y. 2006-07
 - Campi Elettromagnetici (12 CFU), Laurea Magistrale in Ingegneria delle Telecomunicazioni, a.y. 2005-06

- At the Polytechnic of Milan
- Esercitazioni di Fisica Generale II, corso di Laurea in Ingegneria Elettronica, Informatica e Telecomunicazioni (vecchio ordinamento), Politecnico di Milano (campus Leonardo), a.y. 2000-01.
 - Lecturer (contract professor) del corso di Fisica Sperimentale A, corso di laurea in Ingegneria Biomedica (nuovo ordinamento), Politecnico di Milano campus Leonardo, a.y. 1999-00.
 - Esercitazioni di Fisica Generale, Diploma di Laurea in Ingegneria Meccanica Politecnico di Milano sede di Piacenza, a.y. 1997-98, 1998-99.
 - Esercitazioni di Fisica Generale, Diploma di Laurea in Ingegneria delle Telecomunicazioni, Informatica, Elettronica e Biomedica Politecnico di Milano (campus Leonardo), a.y. 1999-00.
 - Esercitazioni di Fisica Generale, Diploma di Laurea in Ingegneria Elettrica, Aerospaziale ed Energetica, Politecnico di Milano (campus Leonardo), a.y. 1997-98, 1998-99.

GRANTS AND PROJECTS

November 2023 - current **Principal Investigator "Inverse Design of tErahertz interAction Structures (IDEAS)", PRIN 2022 PNRR**

Description IDEAS aims to create a cutting-edge computational platform specifically designed for the inverse design (ID) of structures involved in THz-vacuum-electronics interactions. This platform will not only facilitate THz generation but also support THz-driven particle acceleration. The project will utilize advanced direct and inverse numerical models, further strengthened by the integration of robust ID optimization tools.

Total grant 237 k-Euro. (University of Catania: 86 k-Euro).

September 2023 - current **Local coordinator for UniCT "Dielectric Optical acceleratorS for hEalth (DOSE)" PRIN 2022**

Description DOSE is dedicated to developing an innovative particle acceleration platform. The project focuses on studying and advancing a new generation of compact high-gradient linear accelerators (LINACs) featuring interaction structures based on hollow-core dielectric waveguides. These dielectric structures are notable for their larger breakdown threshold compared to conventional metallic structures, making them promising candidates for operation in Continuous Wave (CW) mode.

Total grant 232 k-Euro. (University of Catania: 48 k-Euro).

January 2023 - current **Principal Investigator UNICT affiliated to Spoke 3, RESTART Project**

Name of the Project PE "Research and innovation on future telecommunications system and networks, to make Italy more smart (RESTART)"

Description UNICT, in the framework of RESTART, and in particular of the structural project "Antennas & Devices foR mixing, dEtECTION And Manipulation of mmWaves (DREAM)" of the Spoke 3 is in charge of the design and experimental validation of single and dual polarization radiating elements and small arrays.

Total grant RESTART total costs: 118 MEuro

June 2015 – December 2018 **Proposer of the "Activity 3". SNSI Smart, Secure and Inclusive Communities in "PON Ricerca e Innovazione 2014-2020"**

Name of the project "PON Ricerca e Innovazione 2014-2020"

Description The research concerns the study, design, and development of reconfigurable antennas for connectivity on the move in Smart Environment scenarios.

Total grant "Activity 3" costs: 178 k-euro.

June 2015 – December 2018 **Principal investigator (PI) of the experiment "DEMETRA".**

Name of the project "DiElectric and METallic Radiofrequency Accelerator" (DEMETRA). Experiment financed by Nazionale di Fisica Nucleare (INFN) National Scientific Commission 5 Technological, Interdisciplinary and Acceleratories Physics

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|---------------------|--|
| Description | Study and optimization of high gradient accelerating structures (operating in X and W bands) for relativistic electrons. The experiment also includes conception, study, and experimental characterization of innovative all-dielectric accelerating structures operating in X and W bandwidths and potentially scalable at optical frequencies. |
| Total grant | 300 k-euro. |
| 2013 – 2016 | Principal scientific investigator for the University of Catania in the project “SMART CONCRETE”. |
| Name of the project | “SMART CONCRETE”; SMART CITIES AND COMMUNITIES: “Development of high-performance, low-cost technologies and efficient systems for internal structural monitoring and for safety implementation of concrete civil constructions and buildings”; PON financed by MIUR. |
| Description | The project developed technical solutions to monitor the safety of concrete infrastructures and their reliability over time (or after an exceptional event such as an earthquake). In the framework of the project, an ultra-wide-permittivity antenna has been conceived and fabricated. The antenna allows both communication and energy transfer towards a battery-less pressure sensor embedded into the concrete infrastructures to be monitored. |
| Total grant | 7.5 M-euro. (University of Catania: 190 k-euro) |

EDITORIAL BOARD

- Editorial Board Member: “International Journal of Antennas and Propagation”, Hindawi.
- Editorial Board Member: “International Journal of RF and Microwave Computer Aided Engineering”, Wiley.
- Editorial Board Member: “Telecom”, Multidisciplinary Digital Publishing Institute (MDPI).

SCIENTIFIC SOCIETIES

- IEEE Member.
- SIEM Member (Italian Society of Electromagnetics).
- Associated to CNIT (Italian Consortium for Telecommunications).
- Associated to INFN-LNS (National Institute for Nuclear Physics).

RECENT/SELECTED PUBLICATIONS IN JOURNALS

- [1] Santi C Pavone and Gino Sorbello. “Near-field Power Efficiency Maximization of a Bessel-shaped Beam Through Planar Layered Media”. In: *IEEE Transactions on Antennas and Propagation* (2024).
- [2] Marco Simone, Santi Concetto Pavone, Matteo Bruno Lodi, Nicola Curreli, Giacomo Muntoni, Alessandro Fanti, Gino Sorbello, and Giuseppe Mazzarella. “A Low-profile Shared Aperture Antenna for FR1 and FR2 5G Frequency Bands”. In: *IEEE Access* (2024).
- [3] Ottavio Crisafulli, Nicolò Ivan Piazzese, Santi Concetto Pavone, Giuseppe Giammello, Giovanni Galvagna, Salvatore Pitrulli, Andrea Francesco Morabito, Loreto Di Donato, Michele Sardo, and Gino Sorbello. “Performance Analysis of BLE-5.1 Angle of Arrival Estimation Using Embedded Radiation Patterns on a 3×3 Uniform Rectangular Array”. In: *IEEE Access* 12 (2024), pp. 42572–42584.
- [4] R Palmeri, N Salerno, GS Mauro, D Rocco, A Locatelli, G Torrisi, and G Sorbello. “Optimization of sub-relativistic co-propagating accelerating structures”. In: *Optics Express* 31.23 (2023), pp. 38891–38909.
- [5] C Agodi et al. “Nuclear physics midterm plan at LNS”. In: *The European Physical Journal Plus* 138.11 (2023), p. 1038.
- [6] G Buttazzoni, E Marongiu, A Fanti, A Melis, N Curreli, S C Pavone, G Sorbello, G M Schettino, F Vatta, F Babich, and M Comisso. “Simple Blass Matrix Design Strategy for Multi-Beam Arbitrary Linear Antenna Arrays”. In: *IEEE Transactions on Antennas and Propagation* (2023).

- [7] R Pecoraro, S C Pavone, E M Scalisi, S Ignoto, C Sica, S Indelicato, F Capparucci, Claria, A Salvaggio, G Sorbello, L Di Donato, and M V Brundo. "Multimarker Approach to Evaluate the Exposure to Electromagnetic Fields at 27 GHz on Danio rerio Larvae". In: *Journal of Marine Science and Engineering* 11.4 (2023), p. 693.
- [8] Santi C Pavone, Loreto Di Donato, and Gino Sorbello. "Effects of a Cylindrical Metallic Cavity on the Radiation of Longitudinally Polarized Limited-Diffractive Bessel Beams". In: *IEEE Antennas and Wireless Propagation Letters* 22.3 (2022), pp. 655–659.
- [9] Marco Simone, Santi Concetto Pavone, Matteo Bruno Lodi, Nicola Curreli, Giacomo Muntoni, Alessandro Fanti, Gino Sorbello, and Giuseppe Mazzarella. "Design of a Low-Profile Dual Linearly Polarized Antenna Array for mm-Wave 5G". In: *IEEE Access* (2023).
- [10] G Torrissi, E Naselli, D Mascali, L Di Donato, and G Sorbello. "Mm-wave polarimeter and profilometry design study for retrieving plasma density in the PANDORA experiment". In: *Nuclear Physics and Astrophysics in Plasma Traps* 16648714 (2022), p. 51.
- [11] Giovanni Minardi, Giuseppe Greco, Giovanni Vinci, Santi Agatino Rizzo, Nunzio Salerno, and Gino Sorbello. "Electromagnetic Simulation Flow for Integrated Power Electronics Modules". In: *Electronics* 11.16 (2022), p. 2498.
- [12] D. Mascali, G. Torrissi, L. Di Donato, G. Sorbello, E. Naselli, S. C. Pavone, and S. Cecuzzi. "Preliminary evaluation of inverse scattering-based plasma-profilometry application to fusion plasmas". In: *Journal of Instrumentation* 17.06 (2022), p. C06006.
- [13] Roberta Pecoraro, Santi Concetto Pavone, Elena Maria Scalisi, Carmen Sica, Sara Ignoto, Martina Contino, Antonio Salvaggio, Dimitra Marmara, Gino Sorbello, Loreto Di Donato, et al. "Biological effects of non-ionizing electromagnetic fields at 27 GHz on sperm quality of *Mytilus galloprovincialis*". In: *Journal of Marine Science and Engineering* 10.4 (2022), p. 521.
- [14] Giorgio Sebastiano Mauro, Giuseppe Torrissi, Andrea Locatelli, Alberto Bacci, Costantino De Angelis, David Mascali, and Gino Sorbello. "Numerical Simulation of a Hollow-Core Woodpile-Based Mode Launcher for Dielectric Laser Accelerators". In: *Applied Sciences* 12.5 (2022), p. 2609.
- [15] D. Mascali, D. Santonocito, S. Amaducci, L. Andò, V. Antonuccio, S. Biri, A. Bonanno, V. P. Bonanno, S. Briefi, M. Busso, L. Celona, L. Cosentino, S. Cristallo, Cuffiani M., C. De Angelis, G. De Angelis, D. De Salvador, L. Di Donato, J.-E. Ducret, Vakili A. E., Fantz U., A. Galata, C. S. Gallo, S. Gammino, T. Isernia, H. Koivisto, Kratz K.-L., R. Kronholm, M. La Cognata, Leoni S., A. Locatelli, M. Maggiore, F. Maimone, L. Malferri, G. Mancini, L. Maunoury, G. S. Mauro, M. Mazzaglia, A. Mengoni, A. Miraglia, B. Mishra, M. Musumeci, D. R. Napoli, E. Naselli, F. Odorici, L. Palladino, G. Palmisano, S. Pavone, S. Pennisi, A. Perego, A. Pidotella, R. Racz, R. Reitano, D. Rifuggiato, M. Rinaldi, A. D. Russo, F. Russo, G. Schillaci, S. Selleri S. and Simonucci, G. Sorbello, R. Sparta, S. Taioli, K. Tinschert, G. Torrissi, A. Trifiro, S. Tsikata, A. Tumino, D. Vescovi, and L. Vincetti. "A novel approach to β -decay: PANDORA, a new experimental setup for future in-plasma measurements". In: *Universe* 8.2 (2022), p. 80.
- [16] Santi C Pavone, Gino Sorbello, and Loreto Di Donato. "Forward and Inverse Scattering of Metallic Objects Through Focused Bessel-Shaped Fields". In: *IEEE Open Journal of Antennas and Propagation* 3 (2022), pp. 911–916.
- [17] Elena Marongiu, Alessandro Fanti, Santi Concetto Pavone, Matteo Bruno Lodi, Andrea Melis, Nicola Curreli, Claudia Musu, Gino Sorbello, and Giuseppe Mazzarella. "Design and Characterization of Modified Comb Patch Antennas". In: *IEEE Access* 10 (2022), pp. 36220–36232.
- [18] G. Torrissi, E. Naselli, L Di Donato, S. Mauro G, M. Mazzaglia, B. Mishra, A. Pidotella, G. Sorbello, and D. Mascali. "RF and microwave diagnostics for compact plasma traps and possible perspectives for fusion devices". In: *Journal of Instrumentation* 17.01 (2022), p. C01050.

- [19] Santi C Pavone, Kesav Ravichandran, Palaniappan Senthilnathan, Loreto Di Donato, Ottavio Crisafulli, S Radha, Prabagarane Nagaradjane, Gino Sorbello, et al. “Comparative analysis of machine learning and physics-based optimizations of a dual circularly polarized antenna for V2X applications”. In: *AEU-International Journal of Electronics and Communications* 142 (2021), p. 153994.
- [20] Santi C Pavone, Gino Sorbello, and Loreto Di Donato. “Improving physical optics approximation through Bessel beam scattering”. In: *IEEE Antennas and Wireless Propagation Letters* 20.6 (2021), pp. 993–997.
- [21] Giorgio Sebastiano Mauro, Giuseppe Torrisi, Ornella Leonardi, Angelo Pidotella, Gino Sorbello, and David Mascali. “Design and Analysis of Slotted Waveguide Antenna Radiating in a “Plasma-Shaped” Cavity of an ECR Ion Source”. In: 2.1 (2021), pp. 42–51.
- [22] Giuseppe Torrisi, Ornella Leonardi, Giorgio Sebastiano Mauro, Luigi Celona, and Gino Sorbello. “Synthesis of open structures starting from closed-cross-section waveguide devices”. In: *IET Microwaves, Antennas & Propagation* 14.13 (2020), pp. 1522–1529.
- [23] Giorgio S Mauro, Andrea Locatelli, Giuseppe Torrisi, Ornella Leonardi, Luigi Celona, Costantino De Angelis, and Gino Sorbello. “Fabrication and characterization of woodpile waveguides for microwave injection in ion sources”. In: *IEEE Transactions on Microwave Theory and Techniques* 68.5 (2020), pp. 1621–1626.
- [24] G Pirruccio, D Rocco, C De Angelis, G Sorbello, D Mascali, G Torrisi, M Frassetto, L Malferrari, F Odorici, C Altana, et al. “Numerical simulations on laser absorption enhancement in hybrid metallo-dielectric nanostructured targets for future nuclear astrophysics experiments”. In: *AIP Advances* 10.4 (2020), p. 045020.
- [25] G Torrisi, A Locatelli, GS Mauro, M Bellettato, L Celona, F Mancarella, C De Angelis, and G Sorbello. “Design and characterization of a silicon w-band woodpile photonic crystal waveguide”. In: *IEEE Microwave and Wireless Components Letters* 30.4 (2020), pp. 347–350.
- [26] Santi Concetto Pavone, Gino Sorbello, and Loreto Di Donato. “On the orbital angular momentum incident fields in linearized microwave imaging”. In: *Sensors* 20.7 (2020), p. 1905.
- [27] Harine Govindarajan, Santi C Pavone, Loreto Di Donato, Paolo Di Mariano, Giuseppe Distefano, Patrizia Livreri, Prabagarane Nagaradjane, Concetto Squadrito, and Gino Sorbello. “Design of a compact dual circular-polarized antenna for L-band satellite applications”. In: *IEEE Antennas and Wireless Propagation Letters* 19.4 (2020), pp. 547–551.
- [28] Santi Concetto Pavone, Giorgio Sebastiano Mauro, Loreto Di Donato, and Gino Sorbello. “Design of dual circularly polarized sequentially-fed patch antennas for satellite applications”. In: *Applied Sciences* 10.6 (2020), p. 2107.
- [29] Giorgio Sebastiano Mauro, Santi Concetto Pavone, Giuseppe Torrisi, Antonio Palmieri, Luigi Celona, Santo Gammino, and Gino Sorbello. “Perturbative Approach for Fast and Accurate Evaluation of Quasi Axially-Symmetric Cavity Resonance Frequency in Drift Tube Linacs”. In: *Progress In Electromagnetics Research M* 93 (2020), pp. 109–118.
- [30] Giada M Battaglia, Andrea Francesco Morabito, Gino Sorbello, and Tommaso Isernia. “Mask-constrained power synthesis of large and arbitrary arrays as a few-samples global optimization”. In: *Progress In Electromagnetics Research C* 98 (2020), pp. 69–81.
- [31] Leandro Grasso, Gino Sorbello, Egidio Ragonese, and Giuseppe Palmisano. “Code-design of differential-drive CMOS rectifier and inductively coupled antenna for RF harvesting”. In: *IEEE Transactions on Microwave Theory and Techniques* 68.1 (2019), pp. 365–376.

PATENT

- 2021 “Metodo per progettare una struttura accelerante dielettrica che supporta un modo TE₂₁₀-like perturbato” IT patent pend. n.102021000021158 (deposited in 04/08/2021)

Il sottoscritto, a conoscenza di quanto prescritto dall'art. 76 del D.P.R. 28 dicembre 2000 n. 445, sulla responsabilità penale cui può andare incontro in caso di falsità in atti e di dichiarazioni mendaci, nonché di quanto prescritto dall'art. 75 del D.P.R. 28 dicembre 2000 n. 445, sulla decadenza dai benefici eventualmente conseguenti al provvedimento emanato sulla base di dichiarazioni non veritiere, ai sensi e per gli effetti del citato D.P.R. n. 445/2000 e sotto la propria personale responsabilità dichiara che tutte le informazioni contenute nel proprio curriculum vitae sono veritiere.