

Date and place of birth: December 1<sup>st</sup>, 1970, Lecce, Italy

**Degrees:**

- PhD in Physics, University of Modena, 22/02/1999.
- Doctor degree in Physics, University of Modena, 28/07/1995. Marks: 110/110 cum laude.

**Research positions and grants:**

Since 14/04/2008 permanent scientist, Institute of Nanoscience, CNR, Modena.

01/07/2004 - 13/04/2008 tenure-track scientist at S3 center, INFN, Modena.

01/05/2003 - 30/06/2004 scientist at S3 center, INFN, Modena.

01/02/2001 - 30/04/2003 post-doc grant at Physics Department, University of Modena and Reggio Emilia.

01/01/1999 - 31/12/2000 post doc grant at INFN Unit, Modena.

November-December 1999 visiting scientist at A.F. Ioffe Institute, S. Petersburg, Russia.

01/11/1995 - 31/10/1998 PhD grant, University of Modena. Scientific activity at ELETTRA, Trieste.

01/09/1995 - 31/10/1995 INFN grant at IMAI- CNR, Montelibretti, Rome.

May 1994 – June 1995 research activity at IMAI- CNR, Montelibretti, Rome and ELETTRA, Trieste.

**Current Research Interests and expertise**

- plasmonic nanostructures
- oxide-based films and nanoparticles for applications in fuel cells, catalysis and biomedicine
- metal/oxide nanostructures
- structure and electronic properties
- MBE growth techniques
- photoemission spectroscopy, X-ray absorption spectroscopy, scanning probe microscopy, photon/electron diffraction

**Present scientific collaborators:**

Prof. Federico Boscherini, Department of Physics and Astronomy, University of Bologna.

Dr. Lucia Amidani, ESRF, Grenoble, France.

Prof. Gianluca Malavasi and Dr. Alfonso Pedone, Dipartimento di Chimica e Scienze della Terra, Università di Modena e Reggio Emilia.

Dr. Livia Giordano, Prof. G. Pacchioni, Dipartimento di Scienze dei Materiali, Università di Milano Bicocca.

Dr. Ian Ingo Flege, Institute of Solid State Physics, University of Bremen, Germany.

Dr. Clemens Barth, CINAM, CNRS, Marseille, France.

**Projects:**

Partner of 10 national research projects and of 6 international research projects.

**Publications**

Co-author of 90 publications on international journals, of 4 publications on synchrotron radiation highlights and of 3 book chapters.

**Other**

Author of a number of communications at national and international conferences, 13 invited talks.

Co-supervisor of 14 doctor degree thesis and 3 PhD students. Supervisor of 3 PhD students.

Member of IWOX International Scientific board since 2012. Member of “Nano and Physical Science PhD school” board since 2013. Member of “Journal of Spectroscopy” editorial board since 2012.

Member of the CNR-NANO Institute board since 2010.