

Curriculum vitae of Prof. Luca Lozzi

Career

1986	Laurea in Physics (110/110 cum laude), University of L'Aquila, Italy, with final thesis on the structural and electronic properties of metal clusters, supervisor Prof. M. De Crescenzi
1990 –1991	Synchrotron Radiation Center, University of Wisconsin--Madison, USA, grant from CNR (Italian National Research Council);
1992 - 2015	Assistant Professor at the Department of Physical and Chemical Sciences, University of L'Aquila, Italy
2015 – 2018	Associate Professor at the Department of Physical and Chemical Sciences, University of L'Aquila, Italy
2018-present	Full Professor at the Department of Physical and Chemical Sciences, University of L'Aquila, Italy

Since 2021 he is Director of Department of Physical and Chemical Sciences of University of L'Aquila.

Since 2019 he is in charge of one of the most important public engagement events of the University, Street Science, during the European Researcher's Night.

Since 2017 he is Director of the Microscopy Centre of the University of L'Aquila.

Research activity

All the research activities have been devoted to study the surface and interface properties of clean surfaces (metals and semiconductors) and ultra thin films (metallic, oxides, organic molecules) deposited onto them. The experimental studies have been performed using several techniques, like XPS, UPS, ARUPS, LEED, EELS, STM, AFM, AES, XRD, SEM. Some of the experiments have been also performed at synchrotron radiation facilities: Alladin, (Madison, USA), Elettra, (Trieste, Italy), Lure (Paris, France).

Present research activities are: metal oxide and polymeric nanofibers, metal-organic interfaces for organic devices; carbon nanotubes and thin organic films as gas sensors, carbon nanotubes-organic molecules interfaces for sensors devices.

During this research activity he has been co-author of more than 170 papers on international journals.

He served as referee for several international journals (as Surface Science, Thin Solid Films, Applied Physics Letters, Journal of Applied Physics) and expert for FP7 projects.

A part for these basic-character researches, he has a long experience for collaboration with industries, in particular microelectronics ones, as Texas Instruments Italia (Avezzano, Aq, Italy), Micron Technologies Italia (Avezzano, Aq, Italy), Thales Alenia Space (L'Aquila, Italy), CREO (L'Aquila), Vibac (L'Aquila, Italy). This activity is performed using XPS, XRD, AES techniques.

Teaching activity

In the last years he has been in charge of several classes:

- 1) Physics of Matter with Laboratory, at the second year of the Bachelor's level degree in Chemistry and Material Science, 80 hours class (atomic physics).
- 2) Semiconductor Physics with Laboratory, at the third year of Bachelor's level degree in Chemistry and Material Science, 80 hours class.
- 3) Electronic Devices, at the first year of Master Degree in Electronic Engineering, 30 hours class (from quantum mechanics to semiconductor properties)
- 4) Introduction to Physics, a laboratory course at the first year of the Bachelor's level degree in Physics