

## PERSONAL INFORMATION

## Maurizio Passacantando

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ORCID : 0000-0002-3680-5295

<http://www.dsfc.univaq.it/it/professori-associati/38-passacantando-maurizio.html>

Sex [REDACTED] | Date of birth [REDACTED] | Nationality Italian

## WORK EXPERIENCE

April 2022 – to now

## Full Professor in Experimental Physics

University of L'Aquila - Department of Physical and Chemical Science

- Research and Teaching

May 2015 – March 2022

## Associate Professor in Experimental Physics

University of L'Aquila - Department of Physical and Chemical Science

- Research and Teaching

September 2002 – May 2015

## Assistant Professor in Physics of Matter

University of L'Aquila - Department of Physical and Chemical Science

- Research and Teaching

March 1992 – August 2002

## Graduate Technician

University of L'Aquila - Department of Physics

- Research

January 1991 – January 1992

## Research fellowship of the National Institute for the Physics of Matter (INFM)

University of L'Aquila - Department of Physics

- Research

July 1989 – September 1990

## Research fellowship

University of L'Aquila - Department of Physics

- Research

## EDUCATION AND TRAINING

July 1989

## Master's Degree in Physics

Master Degree

University of L'Aquila (Italy)

- Thesis title: Study of the electronic and structural properties of Cr clusters by means of EELS

## PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

- Communication skills**
- Good communication skills gained through my teaching experience.
  - Good interaction in national and international projects.
- Organisational / managerial skills**
- Member of the Administration Council of the Azienda per il diritto allo studio (Regione Abruzzo) University of L'Aquila (from .
  - Member of Doctoral College of the Dept. of Physical and Chemical Sciences, University of L'Aquila
- Computer skills**
- good command of Microsoft Office™ tools
- Driving licence**
- B

## ADDITIONAL INFORMATION

- Publications**
- Author of 261 publications on international peer-reviewed journals.
  - ORCID ID: 0000-0002-3680-5295.
  - Author SCOPUS ID: 7005636831.
  - SCOPUS (on November 09, 2024): h-index: 48; Citations: 7309.
- Projects**
- PRIN 2003093440\_004-Area 09 (2003); Participant;
  - PRIN 2004020258\_002-Area 02 (2004); Participant;
  - PRIN 2005020415\_003-Area 02 (2005); Participant;
  - GINT project: funded by INFN (2006); Participant;
  - CNR-INFN European Project NanoSci-ERA, S-FIVE (2007); Participant;
  - FP7-NMP-2009-SMALL-3 contract n. 245513: NATIOMEM (2009); Participant;
  - SinPhoNIA project: funded by INFN (2009); Participant;
  - TECNA4AUTO - POR FESR ABRUZZO 2007/13 (2012); Participant;
  - PARIDE project: funded by INFN (2013) ; Project Leader;
  - Prog. AQ/0016/01-02/X23 - MiSE Cratere Abruzzo (2016); Project Leader;
  - Prog. AQ/0002/01-03/X23 - MiSE Cratere Abruzzo (2016); Participant;
  - Prog. ARS01\_00536 dal titolo "OCEANOS" – MUR (2021); Participant;
  - SPS G5936 – Progetto ESCAPE – NATO (2022); Project Leader.
  - PRIN-PNRR 2022 - 2DEGAS Project n. P2022S5AN8 (2023); Associated investigator.

- Research Activity**
- Its main fields of research are oriented towards:
- growth and characterization of: carbon based nanomaterials (SWCNT, MWCNT, Graphene, Carbon sponges and Graphene oxide);
  - growth and characterization of: semiconductive and insulating nanowires;
  - growth of metal oxide nanoparticles;
  - growth of Ce<sub>2</sub>O<sub>3</sub> nanoparticles used for bio medical applications;
  - Fabrication and electrical characterization of field-effect transistors (FETs) based on graphene and other 2D materials.
  - Experience in the following spectroscopy techniques: electron spectroscopy (AES, EELS and EXELFS), X-ray photoelectron spectroscopy (XPS), UV spectroscopy, X-ray diffraction and X-ray reflectometry. Some of the experiments have been also performed at synchrotron radiation facilities: ELETTRA, Sincrotrone Trieste (for XAS, UV spectroscopies), LURE, Orsay, France (for XAS and EXAFS techniques) ESRF, Grenoble, France (for EXAFS techniques).
  - Considerable experience in transmission electron microscopy (TEM) and scanning (SEM).
  - Considerable experience in the design and development of chemical vapor deposition reactors (CVD).

**Technology transfer**

- Participation in the CASTI Laboratory at the University of L'Aquila (INFM project)
- Member of the Administration Council of the spin-off "Nano-cat s.r.l." at the University of L'Aquila.
- Director of the "Structural Properties of Solids" Laboratory - Technology Transfer of the University of L'Aquila.

**Industrial collaboration**

Consolidated collaboration for industrial research activities with various local industries, such as:

- Texas Instruments (Avezzano AQ)
- Thales Alenia Space (L'Aquila)
- Consorzio CREO (L'Aquila)
- Micron Technologies (Avezzano AQ)
- L-Foundy (Avezzano AQ)
- Filmet (L'Aquila)
- Vibac (L'Aquila)

**Honours**

- Member of the Board of the Faculty of Sciences MM.FF.NN of the University of L'Aquila, (period 2008 – 2012, decree faculty of science MM.FF.NN. n. 15 of 9/2/2009).
- Member of the Administration Council of the University of L'Aquila, (2010 – 2014, D.R. 1617/2010).
- Member of the Contracts Commission of the University of L'Aquila, (2010 – 2014, D.R. 1704/2010).
- President of the Contracts Commission at University of L'Aquila, (2010 – 2014, D.R. 36470/2010).
- Member of the Budget Commission of the University of L'Aquila, (2010 – 2014, D.R. 1718/2010).
- Member of the Congress Commission of the University of L'Aquila, (2010 – 2014, D.R. 1719/2010).
- Member of the Administration Council of the Azienda per il diritto allo studio (Regione Abruzzo) University of L'Aquila, (2018 – 2021, D.R. 25845/2018) and (2021 – 2024, D.R. 63798/2021).
- Rector's Delegate to the PQA-UNIVAQ (2022 – 2025, D.R. Rep. n. 768-2022 Prot. n. 57282 del 31.05.2022)

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

L'Aquila 09/11/2024