

Europass Curriculum Vitae



Personal information

First name(s) /
Surname(s)

Mauro Giorcelli

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Nationality

Italian

Date of birth

20 May 1977

Gender

Male

Work experience

Dates

From 01/2008

Occupation or position held

Post Doc at DISAT (Department of Material Science and Technology)

Main activities and
responsibilities

- Research on Carbon Materials
- Research on Nanocomposites
- Research in Biorefinery products applications
- Teaching (Physics)

Name and address of
employer

Department of Material Science and Technology (DISAT)– Politecnico di Torino (ITALY)

Foreign Experiences

Dates

2015

Occupation or position held

Visiting Scientist

Main activities and
responsibilities

Screen printing and Electrospinning experiments

Name and address of
employer

University of Ontario Institute Technology – UOIT, Canada

Dates	2014
Occupation or position held	Visiting Scientist
Main activities and responsibilities	Surface Characterization
Name and address of employer	Department of Material Science – UNAM Mexico City (MX)
Dates	2007
Occupation or position held	Visiting Scientist
Main activities and responsibilities	Raman Study on Graphene
Name and address of employer	Department of Electronic Engineering – Cambridge University (UK)

Recent conference participation as Speaker

Dates	September 27 - October 2, 2015
Conference name /topic	Biorefinery I: Chemicals and Materials from Thermo-Chemical Biomass Conversion and Related Processes
Speech title	Electrical characterization of different Carbon based polymer composites

Dates	October 6 – 10, 2014
Conference name	VII International Conferences on Surfaces, Materials and Vacuum, Ensenada (Baja California)
Speech title	(Invited speaker) Electrical characterization of MWCNTs/Epoxy composites at low frequency

Dates	Decembre 12-14, 2014
Conference name	2014 14 th Mediterranean Microwave Symposium, Marrakesh (IEEE Conference)
Speech title	Wide band characterization of MWCNTs composites based on epoxy resin

Dates	May 19-23, 2014
Conference name	XXXV Convegno Scuola AIM "Mario Farina", Gargano, Italy
Speech title	(Invited speaker) Raman characterization

Dates	November 17-19, 2013
Conference name	International conference on Nano-Materials and Nanotechnology, Annaba, Algeria
Speech title	(Invited speaker) Wide band microwave characterization of MWCNTs/epoxy composites

Dates	September 9-13, 2013
Conference name	19 th International Vacuum Congress IVC-19, Paris, France
Speech title	Production of SiC hollow cylinders starting from CNTs pillars

Dates	June 24-28, 2013
Conference name	Conference on Smart Structures and Materials (SMART'13), Torino Italy
Speech title	Wide band microwave characterization of MWCNTs/Epoxy composites

Collaborations

Subject name	UOIT (University of Ontario Institute Technology),
Location	Oshawa, Ontario
Research field	Thin films based on CNTs, Electrospinning technique
Reference	Prof. Franco Gaspari

Subject name	UofT (University of Toronto)
Location	Toronto
Research field	Biorefinery carbon materials
Reference	Prof. Charles Jia

Subject name	ICFAR, research centre
Location	London, Ontario
Research field	Biorefinery carbon materials
Reference	Prof. Franco Berruti

Subject name	Western University
Location	London , Ontario
Research field	Electrospinning technique
Reference	Prof. Wankei Wan

Subject name	British Columbia
Location	Vancouver
Research field	Biorefinery carbon materials
Reference	Prof. Frank Ko

Education and training

Dates	01/2005 – 02/2009
Title of qualification awarded	PhD in Physics (XX cycle)
Principal subjects/occupational skills covered	PhD Thesis title: "Growth and characterization of carbon nanotubes"
Name and type of organisation providing education and training	Politecnico di Torino Torino (Italy)

Dates	09/1999 – 09/ 2004
Title of qualification awarded	MSc Degree in Electronic Engineering
Principal subjects/occupational skills covered	MSc Thesis title (transl.): “Laser spectroscopy as new spectroscopy for the third millenium: study of Raman and fluorescence systems”
Name and type of organisation providing education and training	Politecnico di Torino Torino (Italy)

Dates	09/1995 – 06/1999
Title of qualification awarded	High School Degree in Electronics
Name and type of organisation providing education and training	I.T.I.S. G.C. Faccio Vercelli (Italy)

Personal skills and competences

Mother tongue

Italian

Other language

English

Self-assessment

European level ()*

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B 2	Independent user	B 2	Independent user	B 2	Independent user	B 2	Independent user	B 2	Independent user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

I am working in the same research team from 2005. Into years my competence and responsibility grown until now where I have responsibility for PhD students and several students into thesis. Moreover, I follow several national and international collaborations with industry and research groups.
I am reviewer for several international journals in my research field.

Organisational skills and competences

In the framework of my activity at Politecnico di Torino, I am coordinating and working with a group of PhD students and Research Fellows in the field of Nanocomposites based mainly on carbon materials. During the years from when I started my research activity, I participated to the research and to the preparation of documentation and technical reports, I organized and I took responsibilities in the framework of the following National and International projects where the team organization to reach objectives were the key point. This has permit to improve my experience in the follow fields.

- **Nanotech laboratory experience:**

Nanocomposites polymers based: samples preparation and characterization (mechanical, electrical, thermal, electromagnetic properties...).

Growth and characterization of Carbon nanostructures, research activity at Politecnico di Torino (Italy), since January 2005 (sup. Prof. A. Tagliaferro). Acquired experience in growth of C-nanotubes, nanographite, a-C carbon by thermal-CVD. Implementation of a new CVD system. Experience in carbon material characterization technique (mechanical, electric, microwave absorption and others), in particular Micro-Raman spectroscopy.

Growth of nanostructures thin films based on Bismuth on several substrates: implementation of home-made vertical CVD system for nebulisation of reagents and thermal deposition on substrate.

Laboratory organization and schedule: general supervision, experiments schedule, purchase materials and security supervision. Experience in design and assistance for growth systems.

- **Teaching**

10 years as Professor assistant for physics class, in particular laboratory experiences.

Technical skills and competences

Laboratory expertise:

Raman Spectroscopy samples preparation and analysis

Contact angle measurements samples preparation and analysis

Electrical characterization (DC, AC, Microwave): samples preparation and analysis

FT-IR: samples preparation and analysis

Mechanical tests (nanoindentations, tractions tests,...): samples preparation ,technical and scientific support

Fe-Sem and TEM analysis : samples preparation , technical and scientific support

Computer skills and competences

Operative systems: Windows. Specific program : Origin
Internet and e-mail use, Microsoft Office Suite

Artistic skills and competences

I am very curious and I follow several class about Art history, Philosophy, Modern history, Phycology, Religion history. Moreover, I followed language class (French, Spanish, and Arabic). Always ready for new adventures.

Other skills and competences

Into fitness for health life. Books consuming.

Driving licence

A-B

Additional information

The list of papers is visible through the Politecnico di Torino web site (www.polito.it), looking for my name.

Turin, November 2015

