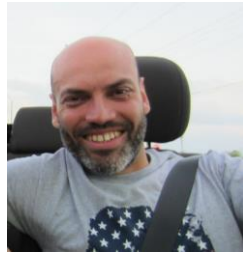




Europass Curriculum Vitae



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
Occupation or position held
Main activities and
responsibilities

From 16/07/2021

Researcher at DISAT (Department of Material Science and Technology): Tenure track holder for associate professor position (RTDB)

- Research on Carbon Materials
- Research on Nanocomposites
- Research in Biorefinery products applications
- Teaching (Physics, Italian and English language)

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

Name and address of
employer

Dates
Occupation or position held
Main activities and
responsibilities

From 09/2021 to 15/07/2021

Senior researcher

- Research on Carbon Materials
- Research on H2 storage and transportation
- Research on CO2 storage and transportation

Name and address of
employer

IIT Italian Institute of Technologies – Torino (ITALY)

Dates
Occupation or position held

From 03/2017 to 03/2020

Researcher at DISAT (Department of Material Science and Technology): RTDA position

Main activities and
responsibilities

- Research on Carbon Materials
- Research on Nanocomposites
- Research in Biorefinery products applications
- Teaching (Physics, Italian and English language)

Name and address of
employer

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

Dates	From 01/2008 to 03/2017
Occupation or position held	Post Doc at DISAT (Department of Material Science and Technology)
Main activities and responsibilities	<ul style="list-style-type: none"> - 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)

Main Foreign Experiences

Dates	2018
Occupation or position held	Visiting Scientist (Erasmus Project)
Main activities and responsibilities	Cement based composite preparation
Name and address of employer	National University of Singapore (NSU) ref. Prof Kua. Harn Wei
Dates	2015-16-18-19
Occupation or position held	Visiting Scientist (Phocsleen Project, Erasmus Project)
Main activities and responsibilities	Screen printing and Electrospinning experiments
Name and address of employer	University of Ontario Institute Technology – UOIT, Canada, Ref. Prof. Franco Gaspari, Prof. Ghaus Rizvi
Dates	2014
Occupation or position held	Visiting Scientist (Phocsleen Project)
Main activities and responsibilities	Surface Characterization
Name and address of employer	Department of Material Science – UNAM Mexico City (MX), Prof. Sandra Rodil
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), Prof. Andrea Ferrari

Main conference participation as invited/organizer

- Invited as keynote speaker at "International Conference on Nano-Materials and Nanotechnology" Annaba, Algeria from 17-11-2013 to 19-11-2013
- Invited for lecture on Raman spectroscopy for XXXV Convegno-Scuola AIM "Mario Farina", Gargnano (BS) from 19-05-2014 to 23-05-2014
- Invited speaker from "Mexican Vacuum Society" for the "Thin Films" Symposium, Ensenada, Baja California, México from 06-10-2014 to 10-10-2014
- Invited as char Session at "INEC2016 IEEE International Nanoelectronic Conference" Chengdu, China from 09-05-2016 to 11-05-2016
- Invited from ICHAR (Associazione Italiana Biochar) as lecture for "Scuola di Biochar 2016" at Osservatorio Ximeniano, via Borgo San Lorenzo 26, Firenze (FI) from 29-09-2016 to 30-09-2016
- Invited speaker at "5th International Symposium AVECS-Advanced Vehicle Energy Concepts and Structures" at University of Ontario Institute Technology, Oshawa, Canada from 18-09-2017 to 19-09-2017
- Invited speaker at 8th IEEE INTERNATIONAL NANO-ELECTRONICS CONFERENCE (INEC 2018) Kuala Lumpur, Malaysia, from 03-01-2018 to 05-01-2018
- Conference Organizer "Biochar day" at University of Toronto in collaboration with Prof. Charles Jia (UofT), Prof. Franco Berruti (Western University) from 13-07-2018 to 13-07-2018
- Invited speaker at "Nanoscience and Nanotechnology" at INFN, Laboratori Nazionali di Frascati, Roma as delegate for MODCOMP project Grant Agreement no. 685844 from 18-12-2018 to 20-12-2018
- Invited as Keynote speaker at the 3rd E2S2-CREATE Biochar Workshop, CREATE Tower, UTown, National University of Singapore from 16-01-2019 to 16-01-2019
- Invited e co-chair for "SIXTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN COMPOSITE MATERIALS (ICRACM-2019)", Varanasi, India from 25-02-2019 to 28-02-2019
- Speaker at "Frontiers in Polymer Science" Budapest; Hungary organized by Materialstoday from 05-05-2019 to 08-05-2019
- Invited Speaket at "The 7th International conference SPACE TECHNOLOGIES: PRESENT AND FUTURE" (<https://dpukrconfiaa.org/en/>) in Dnipro, Ukraine, as delegate for MODCOMP H2020 project (Grant Agreement no. 685844) from 21-05-2019 to 24-05-2019
- Invited speaker at the Australia and New Zeland Biochar Conference ANZBC19, Melbourne from 24-10-2019 to 26-10-2019

Journal Guest editor

- Special Issue "Microwave Conversion Techniques Intensification", Processes (ISSN 2227-9717), MDPI
- "Special Collection on Carbon Based Reinforced Plastics: From Traditional to Frontiers Carbon Fillers", Advanced Composites Letters

Collaborations (main)

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 NUS, National University of Singapore
Location Singapore
Research field Cement Composite
Reference Prof. Kua Harn Wei

Subject name University of Edinburgh
Location Edinburgh, UK
Research field Biochar
Reference Prof. Ondrej Masek

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", Supervisor: Prof. Alberto Tagliaferro
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 millennium: study of Raman and fluorescence systems", Supervisor: Prof. Amelia Sparavigna
Name and type of organisation providing education and training Politecnico di Torino
Torino (Italy)

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 several National and International projects. This Project management experience 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**

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

Technical skills and competences

Laboratory expertise (main):

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

Additional information

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

Turin, August 3, 2021

