# Massimo La Deda

• Affiliation

University of Calabria Department of Chemistry and Chemical Technologies Via P. Bucci, Arcavacata di Rende (Cs), Italy

Sex Male | Date of birth 10/07/1971 | Nationality Italian

## WORK EXPERIENCE

(from 2017 to present)	<ul> <li>Associate Professor of Inorganic Chemistry</li> <li>Department of Chemistry and Chemical Technologies, University of Calabria</li> <li>Besearch activity in the synthesis and characterization of metallic nanoparticles exhibiting plasmonic properties, for application in advanced materials for energy saving and biomedicine, photophysical properties, for application in advanced materials for energy saving and biomedicine, and on the photophysical characterization of luminescent coordination compounds for application in material science (MOLED's, figure crystals, bioinorganic, electrochromic devices). Teaching in morganic Chemistry; Chemistry of Materials; Photochemistry; Didactics of Chemistry</li> </ul>
(2013-2017)	Junior Lecturer of Inorganic Chemistry
	Department of Chemistry and Chemical Technologies, University of Calabria
	<ul> <li>Research activity in the synthesis and characterization of metallic nanoparticles exhibiting plasmonic properties, for application in biomedicine; photophysical characterization of luminescent coordination compounds for application in material science (MOLEDs, liquid crystals, bioinorganic, electrochromic devices). Teaching in Inorganic Chemistry; Chemistry of Materials; Photochemistry; Didactics of Chemistry</li> </ul>
(2005-2013)	Junior Lecturer of Inorganic Chemistry
	Faculty of Pharmacy, University of Calabria
	<ul> <li>Research activity in the photophysical characterization of luminescent coordination compounds for application in material science (MOLEDs, liquid crystals, bioinorganic). Teaching in Inorganic Chemistry; Photochemistry.</li> </ul>
(2004–2005)	Postdoctoral (University of Calabria Grant)
	Department of Chemistry, University of Calabria
	<ul> <li>Research activity in the photophysical characterization of luminescent coordination compounds for application in material science (MOLEDs, liquid crystals, bioinorganic)</li> </ul>
(2003-2004)	Consultant on European Funding Programmes
	Italian Ministry for the Environment, Rome
	Technical assistance to the Italian Regions
(2001-2003)	Postdoctoral (National Institute on Science and Technology of Materials Grant)
	Department of Chemistry, University of Calabria
	<ul> <li>Research activity in the photophysical characterization of luminescent coordination compounds for application in material science</li> </ul>

# EDUCATION AND TRAINING

(1999 - 2001)

**PhD in Inorganic Chemistry** University of Calabria  Photophysical characterization of luminescent coordination compounds and preparations of OLED (Under the supervision of Prof Mauro Ghedini)

### (1999) Institute for the Physics of Matter (INFM) Fellowship

FRAE Institute, CNR - Bologna

Photophysical characterization of luminescent coordination compounds

#### (1998) **B.Sc. Degree in Chemistry**

Alma Mater Studiorum University of Bologna

 Electron Transfer Kinetics in Photosynthetic Reaction Centers (under the supervision of Prof Vincenzo Balzani)

#### WORK ACTIVITIES

Awards

- "Brain in Motions 2011" prize awarded by Tech Cost Angels and University of California Irvine for the realization of an innovative electrochromic device – Los Angeles (USA) 2011
   "Best Startup Showcase" prize for the creation of the innovative start-up "Notredame" -
  - Entrepreneurship Competition Nanjing (China) 2019
- Editorial activity Member of the Editorial Board of:
  - (1) Journal of Modern Chemistry & Applied Research;
  - (2) Molecules;
  - (3) Photochem.

He is the referee of several scientific journals such as Inorganic Chemistry, Dalton Trans., Chemical Communications, European Journal of Inorganic Chemistry, Journal of Luminescence, Chemistry of Material, Molecules, Polyhedron, RSC Advances, Journal of Photochemistry & Photobiology, Technology in Cancer Research & Treatment, Chemistry-A European Journal, Nanoscale, Nanomaterials, Heteroatom Chemistry.

### Guest Editor of

(1) Frontiers in Chemistry: Special Issue "Metals-Based Functional Advanced Materials: Challenges and Trends" (2022)

(2) Photochem: Special Issue "Advanced Research in Photothermal Therapy" (2022)

- Invited presentations
   Invited lecture A Self-assembled Functionalized Gold Nanocubes Monolayer for a Hybrid Organic/Inorganic Microchip "" 6th International Caparica Symposium on Nanoparticles/Nanomaterials and Applications, Caparica | Portugal, 22nd – 25th January 2024
  - Invited Lecture "Luminescent Self-Assembled Monolayer on Gold Nanoparticles: Tuning of emission according to the surface curvature" New Trends and Strategies in the Chemistry of advanced Materials with relevance in Biological Techniques and Environmental Protection – online event, October 7-8, 2021, Timisoara, România
  - Invited Lecture "Plasmonics meets Nanomedicine" Annual Congress of the Italian Society of Photobiology – SIFB2019, June 19-21 2019, Bologna, Italy
  - Invited Lecture "Dressing nanoparticles as building block for plasmonic materials: an open yard" (invited speaker), Nanohybrides 12, May 18-20 2015 - Bastia (France)
  - Invited Lecture "A red emitting discotic liquid crystal containing the cyclopalladated nile red chromophore" Metallomesogens: Advanced Functional Materials with Predetermined Photophysical, Magnetic and Electric Properties" – 15 December 2006 Leuven (Belgium)
  - Grants PRIN Bando 2022 PNRR "HY-GOLD-NUCLEO-CHIP Hybrid organic/inorganic microchip based on oligonucleotides and gold nanoparticles" Principal Investigator Amount: 227,830 €
    - PRIN Bando 2022 "SONONANODRUGS Overcome cancer therapy limits by combining advanced physical/chemical/biological tools" Project Leader per l'Unità CTC-UNICAL: Amount: 283,203 €
    - "Implementazione e Sviluppo dei Sistemi di Controllo di Flussi Radianti in Dispositivi Elettro-Ottici Multistrato per l'Efficienza Energetica delle Costruzioni". Asse I - Investimenti In

	<ul> <li>Capitale Umano- Azione I.1 "Dottorati Innovativi Con Caratterizzazione Industriale" - PON RI 2014–2010 – Amount: 60,000 euro.</li> <li>Progetto "Meraviglie" (STRATI, MULTISTRATI ED INTERFACCE INNOVATIVE PER DISPOSITIVI ELETTROCROMICI DA IMPIEGARE NEL CAMPO DEL RISPARMIO ENERGETICO) – Por Calabria Fesr 2014–2020 - Azione 1.2.2 "Supporto alla Realizzazione di Progetti Complessi di Attività di Ricerca e Sviluppo su Poche Aree Tematiche di Rilievo e all'Applicazione di Soluzioni Tecnologiche Funzionali alla Realizzazione delle Strategie di S3" – Duration: 24 Months, 1/10/17-30/09/19, Amount: 730,000 Euro</li> </ul>
Patents	<ul> <li>Marco Castriota, Enzo Cazzanelli, Giuseppe De Santo, Massimo La Deda and Roberto Termine "ELECTROCHROMIC DEVICE". Italian Patent Office RM2011A000536, ROME, ITALY. Domanda No. 102011901985767, 08/10/2012 - Rilascio No. 14708726 del 3/07/2014</li> <li>Marco Castriota, Enzo Cazzanelli, Giuseppe De Santo, Massimo La Deda and Roberto Termine "ELECTROCHROMIC DEVICE". International Bureau WIPO/PCT, WO 2013/054367 A1,</li> </ul>
ADDITIONAL INFORMATION	
Technological Transfer	For the commercial exploitation of his patents, in 2012, Massimo La Deda founded "NOTREDAME", a high-tech start-up company active in the development of an electrochromic smart window; in particular, the mission of the company is to develop a thin, adhesive electrochromic film that can be applied on existing windows, whose electrochromic response is remotely-controlled by wi-fi technology. In 2021 Massimo La Deda founded "GREEN-TECH-MOTIVE", a high-tech start-up active in the application of electrochromic devices to the automotive and aerospace industries.
	Member of the board of directors of the Matelios industrial district
Publications	total number of publications in peer-review journals: 118 (plus four book chapters) total number of citations: 2895 H index: 29

May 5, 2025