

CURRICULUM VITAE

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• EDUCATION

- 2012 1st Level Master in “The life science in the journalism and in the political-institutional relationships”, with a thesis on World Intellectual Property Indicators/University of Rome La Sapienza, Italy.
- 2011 PhD in Chemical Science on “Microstructural characterization of phospholipid membranes and study of their interaction with peptides and proteins”/Dept. of Chemical Science/University of Naples, Italy.
- 2008 Master Degree in Science and Technologies of Industrial Chemistry with full marks (110/110 cum laude) on “Interaction between A β (25-35) amyloid fragment and phospholipid bilayers in the presence of potential anti-aggregation molecules: an EPR study”/Dept. of Chemical Science/University of Naples, Italy.

• CURRENT POSITION

- 2019 – at present *Tenure-track* researcher (RTD/b)
School Polytechnic and Basic Sciences/Department of Chemical, Materials and Production Engineering/University of Naples Federico II/Italy.

• PREVIOUS POSITIONS

- 2016 – 2019 Researcher (RTD/A)
School Polytechnic and Basic Sciences/ Department of Chemical, Materials and Production Engineering/University of Naples Federico II/Italy.
- 2013 – 2016 Post-doctoral Research Fellow
School Polytechnic and Basic Science/Department of Chemical, Materials and Production Engineering/University of Naples Federico II/Italy.
- 2012 Internship Stage at Sportello APRE-Consorzio Technapoli in Pozzuoli (NA), Italy.
- 2010 – 2011 Visiting scientist
Institut Laue-Langevin (ILL)/Large Scale Structure Laboratory/Grenoble/France.

• FELLOWSHIPS

- 2016 Research Fellow on “Synthesis of semiconductor oxides for applications in the environmental and biomedical fields” - Fondi POR Campania FSE 2014-2020, at UNINA.
- 2015 Research Fellow on “Valutazione ed ottimizzazione delle proprietà reologiche e della processabilità di nanocompositi e blends polimerici” - Progetto ICMPI, at UNINA.
- 2014 – 2015 Research Fellow on “Progettazione e sviluppo di nuove strutture polimeriche multifunzionali per lo sviluppo ecosostenibile” - Progetto MASTRI at DICMaPI, UNINA.
- 2013 – 2014 Research Fellow on “Progetto Poligrig POR Campania FSE 2007/2013”, at UNINA.
- 2012 – 2013 Research Fellow working on the project “Naturally occurring antimicrobials to counteract lung infections in cystic fibrosis patients: Cecropin A-Melittin (CA-M) hybrid peptides and polymyxins” financed by Fondazione per la ricerca sulla Fibrosi Cistica” at UNINA.

• NATIONAL QUALIFICATIONS

Associate Professor in S.C. 03/B2 S.S.D. CHIM/07; S.C. 03/A2 S.S.D. CHIM/02; S.C. 03/B1 S.S.D. CHIM/03.

• RESEARCH ACTIVITY

Design, preparation and definition of structure/property/function relationships of: i) amphiphilic nano-systems interacting with biomolecules; ii) hybrid organic/inorganic nano-bio-materials and interfaces; iii) metal oxides nanoparticles functionalized with amphiphilic molecules or photo-active organic molecules with redox activity. Expertise on Electron Paramagnetic Resonance (EPR) and UV-Vis spectroscopy, Dynamic Light Scattering (DLS), Neutron Reflectivity (NR) and Small-Angle Neutron Scattering (SANS) techniques.

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

- 2016 – at present 2 PhD students in Products and Processes of Chemical Engineering/University of Naples Federico II/ Italy.
- 2016 – at present 30 Bachelor and Master students in Chemical Engineering, Industrial Chemistry and Chemical Science/University of Naples Federico II/ Italy.

- **TEACHING ACTIVITIES**

- 2021 – at present Lecturer of “Fundamentals of EPR spectroscopy and light/neutron scattering in the study of (nano)materials”, PhD School in “Products and Processes of Chemical Engineering”/ University of Naples Federico II/ Italy.
- 2020 – at present Assistant Professor of “Fundamentals of Chemistry”, Bachelor Degree in Biomedical Engineering/ University of Naples Federico II/ Italy.
- 2016 – at present Assistant Professor of “Chemistry”, Bachelor Degree in Aerospace, Automation and Mechanical Engineering/ University of Naples Federico II/ Italy.

- **ORGANISATION OF SCIENTIFIC MEETINGS**

- 2021 Member of Organizing Committee of XXXII Annual Conference of Italian Society of Neutron Spectroscopy (SISN)/about 50 participants/Online, 7-8 October 2021.
- 2014 Member of Organizing Committee of XXV Annual Conference of Italian Society of Neutron Spectroscopy (SISN)/about 100 participants/Naples, 3-4 July 2014.
- 2014 Member of Organizing Committee of IX Conference Center for Colloid and Surface Science (CSGI)/about 150 participants/ Naples, 1-2 July 2014.

- **INSTITUTIONAL RESPONSIBILITIES**

- 2021 – to present Grant Holder of “Programma per Finanziamento Ricerca di Ateneo - FRA2020” as Principal Investigator (PI) of «LipAptaNanoSens Project».
- 2020 – to present Member of Executive Committee/ Società Italiana di Spettroscopia Neutronica/Italy.
- 2020 – to present Coordinator of SISN Newsletter/Società Italiana di Spettroscopia Neutronica/Italy.
- 2019 – to present Member of the departmental Communication Committee/Dept. Chemical, Materials and Production Engineering/University of Naples Federico II/Italy.
- 2017 – 2020 Grant Holder of “Fondo per il finanziamento delle attività base di ricerca (FFABR 2017) – Ricercatori” (comma 295 Legge 232/2016, Legge di Bilancio 2017).

- **COMMISSIONS OF TRUST**

- 2021 – at present Member of the Editorial Board of Nanomaterials, MDPI (Q1, IF 5.076)/Switzerland.
- 2021 – at present Member of the Editorial Board as Associate Editor of PLOSOne (Q1, IF 2.740)/USA.
- 2020 – at present Review Editor of Frontiers in Chemical Engineering, Frontiers/Basel/Switzerland.
- 2019 – at present Member of the Editorial Board of Catalysts, MDPI (Q2, IF 4.146)/Switzerland.
- 2019 – at present Guest Associate Editor of Frontiers in Chemistry (Q1, IF 3.444)/Basel/Switzerland.
- 2016 – at present Invited peer-reviewer for many journals and institutions.

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

- 2019 – to present Associated Member, Research Network “*European COST-Action CA17104 in New diagnostic and therapeutic tools against multidrug resistant tumors*”/France.
- 2018 – to present Associated Member, Associazione Italiana Chimica per l'Ingegneria (AICIng)/Italy.
- 2010 – to present Associated Member, Società Italiana di Spettroscopia Neutronica (SISN)/Italy.
- 2010 – to present Associated Member, Gruppo Italiano di Risonanza Spin Elettronico (GIRSE)/Italy.
- 2010 – to present Associated Member, Società Chimica Italiana (SCI)/Italy.
- 2008 – to present Member, Center for Colloids and Surface Science (CSGI)/Florence/Italy.

- **EUROPEAN NETWORKS**

- 2010 – to present GV has a periodic and continuative activity about the Programme TMR/Large Scale Facilities of European Committee, at the Synchrotron and Neutron Scattering Facilities: **1)** Institute Laue-Langevin (ILL), Grenoble (F); **3)** Heinz Maier-Leibnitz Zentrum (MLZ), Garching (DE); **4)** Rutherford Appleton Laboratory (ISIS) and Diamond Light Source, Didcot (UK); **5)** Swiss Paul Scherrer Institute (PSI), Zurich (S).
- 2010 – to present GV is currently involved in a periodic and continuative research activity within the Program “NFFA-Europe” of UE for the development of research activity in the nanoscience field.