

PERSONAL INFORMATIONS

Name and Surname	Maddalena Corsini
Nationality	Italian
Date of birth	16/01/1975
Contacts	maddalena.corsini@unisi.it
ORCID	0000-0002-5920-5436

WORK EXPERIENCE

- **From 1 November 2024 to date** Associate Professor of General and Inorganic Chemistry
 - **Name and address of employer** Università degli Studi di Siena – via Banchi di Sotto 55, 53100 Siena Italia
 - **Type of activity** Teaching and research
 - **Main tasks and responsibilities** Current teaching activities include General Chemistry in Bachelor's degree program in Agribusiness, General Chemistry in Bachelor's degree program in Biotechnology, and Electrochemistry in the Master's Degree in Chemistry at the University of Siena. International teaching activities include General and Inorganic Chemistry at Siena College Future Biotechnology, Nantong University, China, for Bachelor's degree students in Biotechnology. Recent scientific activities focus on electrochemistry and electrocatalysis, characterization of nanomaterials and functional surfaces, redox processes and metal complexes, and bioinspired materials for energy and biomedical applications. Supervisor and co-supervisor of bachelor's and master's degree theses. Speaker in national and international conferences. Organization and coordination of scientific dissemination activities, such as workshops and other seminars. Member of the Committee for the Teaching of Chemical Sciences and for the Educational guidance of the Faculty.
-
- **From 1 November 2021 to 30 October 2024** Senior fixed-term researcher, disciplinary field of General and inorganic chemistry
 - **Name and address of employer** Università degli Studi di Siena – via Banchi di Sotto 55, 53100 Siena Italia
 - **Type of activity** Teaching and research
 - **Main tasks and responsibilities** Teaching activities in Bachelor's degree program in Agribusiness and Bachelor's degree program in Biological Sciences. Laboratory teaching activities for the Bachelor's Degree in Chemical Sciences. Scientific activities mainly focused on the study of electron transfer processes in inorganic and hybrid materials through electrochemical and spectroscopic methods. Supervision and co-supervision of Bachelor's and Master's degree theses. Participation as a speaker at national and international conferences. Organization and coordination of scientific dissemination activities, including workshops and seminars. Member of the Educational guidance of the Faculty.

- **From 2004 to 2021** Laboratory Technician
- **Name and address of employer** Università degli Studi di Siena – via Banchi di Sotto 55, 53100 Siena Italia
- **Type of Activities** Research activities and research laboratory management
- **Main tasks and responsibilities** Maintenance and management of scientific instrumentation, ensuring compliance with safety standards and procedures in the chemical laboratory. Collection and analysis of experimental data and preparation of scientific manuscripts for publication. Management of emergency situations. Teaching assistance. Participation as a speaker at national and international conferences. Member of the Member of the Educational Guidance of the Faculty.

EDUCATION AND TRAINING

- **Date** 2013
- **Name and type of education or training institution** MIUR – Italian Ministry of University and Education
- **Qualification achieved** **Italian Academic Habilitation** in General and Inorganic Chemistry

- **Date** 2007
- **Name and type of education or training institution** Italian Association for Informatics and Automatic Calculation (AICA)
- **Qualification achieved** **European Computer Driving Licence ECDL (Base)**
 - **Main subjects/professional skills studied** Computer Essentials, Online Essentials, Word Processing, and Spreadsheet

- **Date** 2004
- **Name and type of education or training institution** Università degli Studi di Siena
- **Qualification achieved** **Ph.D in Chemical Science**
- **Main subjects/professional skills studied** Electrochemistry and UV-Vis-NIR spectroelectrochemistry of organometallic and coordination complexes

- **Date** 2000
- **Name and type of education or training institution** Università degli Studi di Siena
- **Qualification achieved** **Master Degree in Chemistry**
- **Main subjects/professional skills studied** Main areas of study: Inorganic Chemistry, Coordination Chemistry and Electrochemistry

PERSONAL SKILLS AND COMPETENCIES

Excellent communication skills acquired through tutoring activities for undergraduate and doctoral students, as well as through teaching and assistance in both classes and laboratory courses. Strong teamwork and collaboration skills developed through experience in sharing common objectives and working towards their achievement, contributing effectively to collective success.

MADRELINGUA Italian
OTHER LANGUAGES English

- Reading skills Good
- Writing skills Good
- Oral expression skills Good

ORGANIZATIONAL SKILLS AND COMPETENCIES

Sense of organization and decision-making skills acquired through team work in the academic field and the participation in scientific and organizing committees of national and international Congresses and Workshops. Many years of experience in the organization and coordination of academic guidance events and OpenDays, gained by participating as a member of the Educational guidance of the Department of Biotechnology, Chemistry and Pharmacy.

COMPUTER SKILLS AND SCIENTIFIC SOFTWARE

Excellent knowledge of the Office package (Word, Excel, PowerPoint), OpenOffice and digital communication tools. Mastery of software for data analysis and graphs (Origin), chemical drawing (ChemDraw, ChemSketch) and graphic design (Canva, BioRender). Use of electrochemical and data analysis software: Nova, EC-Lab, Gamry Instruments software, Echem Analyst, as well as tools for electrochemical impedance modeling (EIS / impedance modeling). Excellent ability to consult and use scientific databases (SciFinder, Scopus, Web of Science, PubMed, Cambridge Structural Database).

BIBLIOGRAPHIC SCORES

Author/co-author of 73 scientific articles published in *peer-reviewed* journals and of 2 contributions to edited volumes. H-index 26

SCIENTIFIC AND TECHNICAL SKILLS

Synthesis and characterization of nanomaterials and functional surfaces; electrochemistry of redox and catalysis processes (including OER); bioinspired materials and catalytic systems for energy and biomedical applications. Ability to design and conduct experiments in the field of synthesis of coordination complexes and their chemical-physical characterization, and in the field of characterization of the redox properties of molecules or new materials through the use of UV-vis-NIR electrochemical and spectroelectrochemical techniques. Recent development of scientific collaborations for the advanced characterization of materials and functional surfaces using surface and structural characterization techniques including X-ray photoelectron spectroscopy (XPS), X-ray diffraction (XRD), transmission electron microscopy (TEM) and scanning electron microscopy (SEM). Ability to produce written papers (Italian and English) for communication and dissemination of scientific data.

Institutional Activities and Academic Positions

Member of selection committees for the awarding of scholarships. Chair of examination committees for Ph.D. final examinations. Scientific tutoring for scholarship holders, including supervision of research activities and support for scientific training. Academic tutoring activities as a teaching tutor for students enrolled in the Bachelor's degree in Chemical Science in the academic years 2025–2026.

Additional Professional Activities

Reviewer for numerous scientific journals. Member of the Italian Chemical Society and the American Chemical Society.

I authorize personal data management as per the Italian DLgs. 101/2018 and art. 13 GDPR (UE Regulation 2016/679)

I declare that the information in this Curriculum Vitae is correct and true as per the D.P.R. 445/2000