

MARCO SOLA

Curriculum Vitae

(update August 2024)

ADDRESS

Dipartimento di Scienze della Vita, Università di Modena e Reggio Emilia, Via
Campi, 103, 41125, Modena

DATE OF BIRTH

3 July 1957

FORMAL HIGHER EDUCATION

Graduate: (*Dottorato in Chimica*) Università di Parma, 1987

Undergraduate: (*5-years Laurea in Chimica*) "*cum laude*", Università di Modena, 1981

PROFESSIONAL APPOINTMENTS

Full Professor of General and Inorganic Chemistry, Department of Life Sciences, University of Modena and Reggio Emilia, 2012-present.

Head of the Department of Chemistry, University of Modena and Reggio Emilia, 2002-2008.

Full Professor of General and Inorganic Chemistry, Department of Chemistry, Faculty of Biotechnology, University of Modena and Reggio Emilia, 2000-2012.

Associate Professor of General and Inorganic Chemistry, Faculty of Agriculture, Alma Mater Studiorum University of Bologna, Italy, 1994-2000.

Associate Professor of General and Inorganic Chemistry, Faculty of Agriculture, University of Basilicata, Italy, 1992-1994.

Assistant Professor, Department of Chemistry, Faculty of Sciences, University of Modena, 1990-1992.

Research associate, Department of Chemistry, The Ohio State University, Columbus, OH, 1989.

Visiting scholar, California Institute of Technology (with Harry B. Gray), Pasadena, USA, 1988.

Postdoctoral fellow, University of Florence (with Ivano Bertini) and University of Bologna (with Claudio Luchinat), 1986-1987.

OFFICES

Rector Delegate for Teaching - Università di Modena e Reggio Emilia (UNIMORE), 2014-2019;

President of the Scienze Section of the National Academy of Science, Letters and Arts of Modena, 2013-2019;

President of the 3-year undergraduate course in Biotechnology (2010-2012) e 2-year master course in Industrial Biotechnology (2012-2014) - UNIMORE;

Academic Senator UNIMORE (2006-2008);

Director of the Department of Chemistry UNIMORE (2002-2008);

Director of the Ph.D. Course in Chemistry UNIMORE (2000-2003)

PUBLICATIONS

Starting from 1984, he coauthored **216** publications (update June 2021)

Papers in International Journals: **189**

Published abstracts: **10**

Book chapters or essays: **5**

Dictionary/Encyclopedia entries: **3**

Proceedings: **7**

Books: **2**

Papers appeared in high-impact international journals (e.g. *Nature-Scientific Reports, J. Am. Chem. Soc., Chem. Sci., J. Phys. Chem. B/C, Biochemistry, Langmuir, Inorg. Chem. J. Biol. Inorg. Chem., Proteins, Faraday Trans; J.C.S. Dalton Trans*).

CITATION INDEXES

(Scopus – update 6/2021)

Sum of the Times Cited: 4026

Citing Articles: 2317

h-index: 38

ORCID: orcid.org/0000-0002-2700-4154

EDITORIAL ACTIVITY

Member of the Editorial Board of *Chemtracts- Inorganic Chemistry (Springer)* 1990-2006.

He currently serves as referee for the following international journals: *Proc. Natl. Acad. Sci. USA; J. Am. Chem. Soc., J. Phys. Chem. B/C, Langmuir, Biochemistry, J. Biol. Inorg. Chem., Biophys. J., ChemBioChem.; Inorg. Chim. Acta; Eur. J. Inorg. Chem.; J. Appl. Electrochem., J. Inorg. Biochem.*

SCIENTIFIC ACTIVITY

The scientific activity of prof. Marco Sola is mainly devoted to the investigation of the functional properties of proteins containing metal cofactors acting as electron carriers or redox enzymes. He is a specialist in the characterization of the redox properties of cytochromes, blue copper proteins, iron-sulfur proteins and peroxidases through direct electrochemistry on solid electrodes and spectro-electrochemistry. He introduced the systematic analysis of the thermodynamic parameters of the electron exchange process for the various classes of ET proteins as a tool to understand the determinants of the redox potential and to characterize various aspects of their solution chemistry. His most recent activity focuses on the characterization of the ET properties of redox metalloproteins wired on solid electrodes, both in terms of the physico-chemical features of the process (driving force, reorganization energy, donor-acceptor electronic coupling, heterogeneous ET pathways) and the practical exploitation of these systems as components of electrocatalytic interfaces for the electronic biosensing of chemicals of clinical and environmental interest.

INVITED LECTURES (SINCE 2005)

Department of Chemistry, University of Oxford, UK (2005); Department of Chemistry, University of Graz, Austria (2005); School of Medicine, University of Newcastle, UK (2006); Department of Chemistry, University of Leiden, NL (2006); Department of Chemistry, University of Siena, Italy (2006); Department of Chemistry, Catholic University Leuven, Belgium (2006); Department of Chemistry, University of Padua (Italy) (2007); Department of Chemistry, BOKU, University of Vienna (2007); Department of Chemistry, University of Florence (CERM), Italy (2007); Department of Chemistry, University of Naples, Italy (2007); CNR Center (ISMN, Institute for the Study of Nanostructured Materials), Bologna, Italy (2008); Department of Chemistry, University of Naples, Italy (2008); Department of Chemistry, University of Florence, Italy (2009). CIBIO, University of Trento, Italy (2010); University of Catania, Italy (2010); OHIO STATE UNIVERSITY – Dept. of Chemistry (2013); University of Urbino (2018); University of Milan (La Statale), 2024.