

Elezioni del Rettore
Università degli Studi di Modena e Reggio Emilia
2019-2025

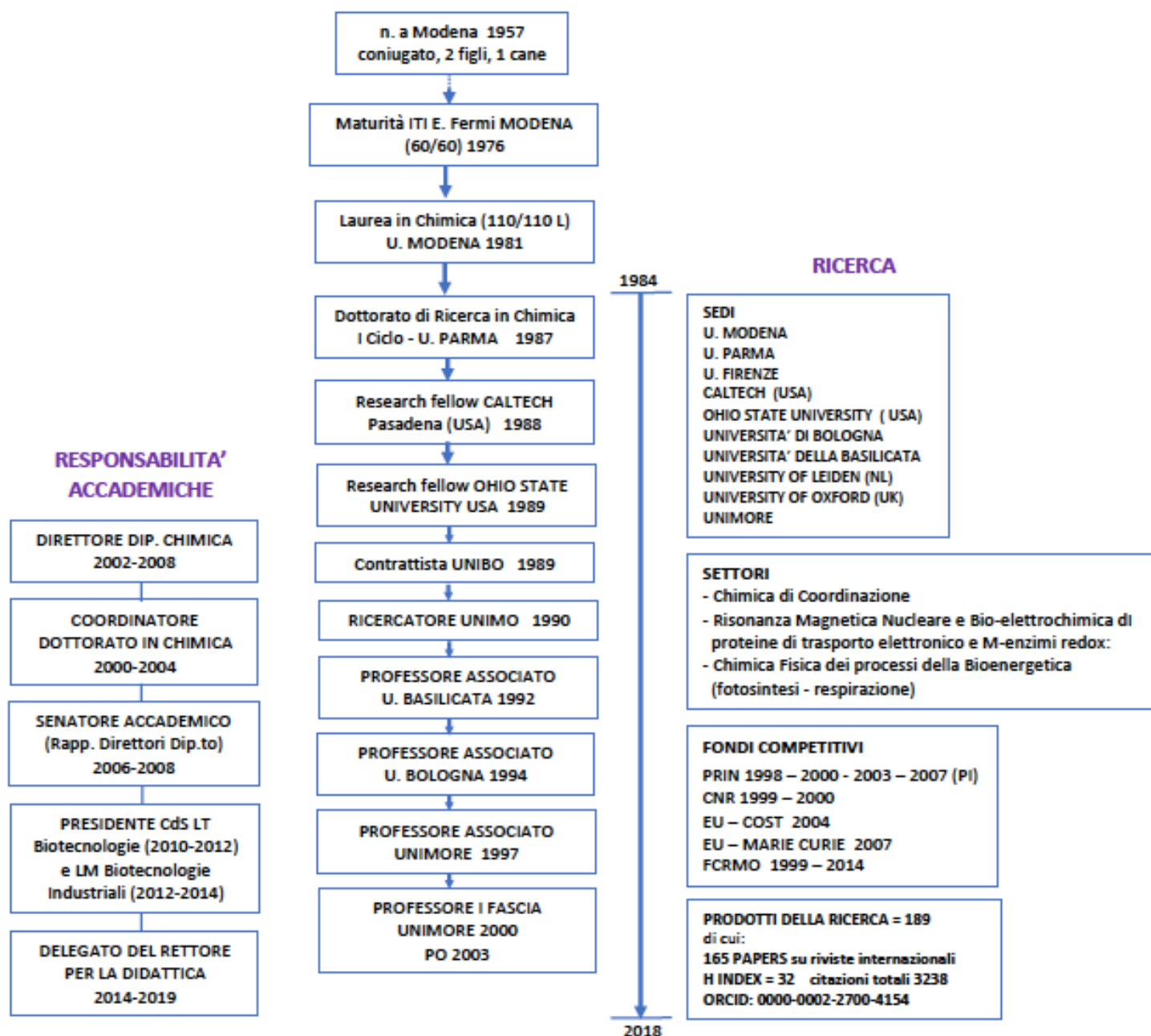
CURRICULUM VITAE

del candidato
Marco Sola

Aprile 2019

CURRICULUM SCHEMATICO

Chi sono e cosa ho fatto finora



MARCO SOLA

Curriculum Vitae

INDIRIZZO

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

DATA DI NASCITA

3 Luglio 1957

STATO CIVILE

Coniugato, due figli.

TITOLI DI STUDIO

Laurea in Chimica "*cum laude*", Università di Modena, Dicembre 1981
Dottorato di Ricerca in Chimica, Università di Parma, Settembre 1987

POSIZIONI OCCUPATE

Professore Ordinario di Chimica Generale e Inorganica, **Dipartimento di Scienze della Vita**, UNIMORE, 2012-presente

Professore Ordinario di Chimica Generale e Inorganica, Facoltà di Bioscienze e Biotecnologie, UNIMORE, 2003-2012

Professore Straordinario di Chimica Generale e Inorganica, Facoltà di Scienze MM. FF. NN. UNIMORE, 2000-2003

Professore Associato di Chimica Generale e Inorganica, Facoltà di Scienze MM. FF. NN. **UNIMORE**, 1997-2000

Professore Associato di Chimica Generale e Inorganica, Facoltà di Agraria, **Università di Bologna** 1994-1997

Professore Associato di Chimica Generale e Inorganica, Facoltà di Agraria, Università della Basilicata (PZ), 1992-1994

Ricercatore, Facoltà di Scienze, Università di Modena, 1990-1992;

Esperto NMR a contratto, Istituto di Chimica Agraria, Università di Bologna, 1990

Visiting Scientist at The Ohio State University, Columbus, OH, USA, 1989

Research Associate al California Institute of Technology (Prof. H. B. Gray), Pasadena, CA, USA, 1988

Borsista, Università di Firenze (Prof. Ivano Bertini) e Università di Bologna (Prof. C. Luchinat), 1986-1987

Dottorando, Università di Modena - Parma, 1984-1986

CARICHE

Delegato Rettorale per la Didattica di Ateneo, Università di Modena e Reggio Emilia, 2014-presente;

Presidente della Sezione di Scienze F.M.N. dell'Accademia Nazionale di Scienze, Lettere ed Arti di Modena, 2013-presente;

Presidente CdS LT Biotecnologie (2010-2012) e LM Biotecnologie Industriali (2012-2014);

SENATORE Accademico (Rappresentante Direttori Dip.to) 2006-2008;

Direttore del Dipartimento di Chimica, UNIMORE, 2002-2008;

Coordinatore del Dottorato in Chimica, UNIMORE, 2000-2003;

PUBBLICAZIONI

Dal 1985 ha prodotto **189** pubblicazioni (aggiornamento 2/2019)

Articoli in rivista: 165

Abstract in rivista: **10**

Contributi in volume (Capitolo o Saggio): **4**

Voci (in dizionario o enciclopedia): **3**

Abstract in Atti di convegno: **6**

I 165 articoli originali in lingua inglese sono apparsi esclusivamente su riviste internazionali ad elevato impatto (tra le quali *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*).

INDICI BIBLIOMETRICI

(Scopus) (aggiornamento 2/2019)

Sum of the Times Cited: 3238

Sum of Times Cited without self-citations: 2183

Citing Articles: 1788

h-index: 32

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

ATTIVITÀ EDITORIALE

Membro dell'Editorial Board di *Chemtracts- Inorganic Chemistry (Springer)* 1990-2006.

Svolge attività di referee per le seguenti riviste internazionali: *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.*

ATTIVITÀ SCIENTIFICA

L'attività scientifica del prof. Marco Sola è rivolta allo studio delle proprietà funzionali di proteine di trasporto elettronico (ET) ed enzimi redox contenenti cofattori metallici. E' esperto nella caratterizzazione delle proprietà redox di citocromi, proteine blue copper, proteine Fe-S e perossidasi con tecniche voltammetriche su elettrodo solido e spettro-elettrochimiche. Ha introdotto l'analisi sistematica dei parametri termodinamici del processo redox per le varie classi di proteine ET allo scopo di ottenere informazioni sui fattori che determinano il potenziale di riduzione di queste specie e caratterizzare diversi aspetti della loro chimica in soluzione. La sua attività più recente è dedicata alla caratterizzazione delle proprietà di trasporto elettronico di metalloproteine redox immobilizzate su elettrodi solidi relativamente alle caratteristiche chimico-fisiche del processo (driving force, energia di riorganizzazione, accoppiamento elettronico donatore-accettore, pathway di trasferimento elettronico) e alla utilizzazione di questi sistemi come componenti di interfacce biocatalitiche per biosensori amperometrici di metaboliti di interesse clinico e di sostanze inquinanti. I risultati di queste attività sono stati presentati in numerosi convegni scientifici nazionali ed internazionali. Collabora con numerosi ricercatori italiani e stranieri (USA, UK, Portogallo, Olanda).

CONFERENZE AD INVITO

(DAL 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)

FONDI OTTENUTI SU BASE COMPETITIVA (DAL 1998)

Progetto PRIN 1998: “Proprietà redox e di riconoscimento molecolare in metalloproteine di trasporto elettronico e proteine RNA-binding, e sistemi di mobilizzazione di metalli”. (Coordinatore Nazionale Prof. Vincenzo Pavone); **€ 33.570**

Progetto di ricerca orientata 1998 –Università di Modena e Reggio Emilia - dal titolo “Organizzazione molecolare e riconoscimento tra partners in complessi proteici di trasferimento elettronico” di L. 35.000.000 (**€ 17.000**);

Coordinatore del Progetto bilaterale di Grande Rilevanza Italia-USA Contributo di ricerca C.N.R. n. 98.01785.CT03 del 31/12/1998 di un progetto bilaterale Italia-USA (partner J.A. Cowan, Ohio State University) dal titolo : “Studi elettrochimici di citocromi c mitocondriali e batterici”, di L.10.000.000 (**€ 5.000**);

Coordinatore del Progetto bilaterale di Grande Rilevanza Italia-USA Contributo di ricerca C.N.R. n. 99.01176.CT03 del 2/12/**1999** di un progetto bilaterale Italia-USA (partner J.A. Cowan, Ohio State University) dal titolo : “Termodinamica del processo redox e degli equilibri conformazionali in citocromi c mitocondriali e batterici”, di L. 9.000.000 (**€ 4.500**);

Progetto Europeo di network COST 2001 dal titolo “Heterogeneous Electron Transfer” (Coordinatore: Prof. Gerard W. Canters (Leiden University, NL) **€ 20.000**;

Finanziamento Fondazione Cassa di Risparmio di Modena del progetto: “Stress ossidativo e morte cellulare programmata. Studio integrato chimico-biotechologico-computazionale di proteine antiossidanti e di trasporto elettronico” (2002) **€ 51.650**.

Progetto PRIN 2003: “Termodinamica del processo redox in metalloproteine di trasporto elettronico e metalloenzimi” (Coordinatore Nazionale Prof. Ivano Bertini); **€ 63.900**

Progetto di Internazionalizzazione del dottorato in Chimica, finanziamento MIUR **€ 80.000**.

Progetto Ricerca Industriale – Università di Modena e Reggio Emilia (2004) dal titolo “Ottimizzazione delle ricerca di laboratorio allo scopo di ottenere una perfetta corrispondenza fra le prove di colore e la successiva applicazione industriale su fibre cellulosiche, poliammidiche e su poliestere” **€ 18.000**.

Progetto Europeo Marie Curie Research Training Networks “The FuoRox concept; advanced education and research in Bio-NanoScience” (2006), **€ 150.000**.

Progetto PRIN 2007: “Sviluppo di biosensori elettrochimici di terza generazione basati su eme-proteine ingegnerizzate e sintetiche” (Coordinatore Nazionale Prof. **Marco Sola**); **€ 81.100**

Finanziamento Fondazione Cassa di Risparmio di Modena del progetto: “Superfici nano-strutturate per dispositivi del tipo “Lab-On-a-Chip” (2009), **€ 103.707**.

Finanziamento Fondazione Cassa di Risparmio di Modena del progetto: “Convegni internazionali” (2013), **€ 5000**.

Totale: € 629.279

ATTIVITÀ DIDATTICA

A.A. 1990 - 1992 ha svolto le mansioni del ruolo dei ricercatori universitari presso la Facoltà di Scienze dell'Università di Modena.

A.A. 1992/93 e 1993/94: titolare dell'insegnamento di *Chimica Generale ed Inorganica* del corso di Laurea in Scienze e Tecnologie Alimentari, Facoltà di Agraria, Università della Basilicata

A.A. 1994/95 - 1997/98: titolare dello stesso insegnamento del corso di Laurea in Scienze e Tecnologie Alimentari, Facoltà di Agraria, Università di Bologna e dell'incarico didattico di *Chimica* del corso di laurea in Scienze della Produzione Animale della stessa Università.

A.A. 1997/98 - 1999/2000: titolare dell'insegnamento di "*Laboratorio di Chimica*" per il corso di Laurea in Scienze Biologiche dell'Università di Modena e della supplenza del modulo di "*Chimica Generale ed Inorganica*" dello stesso corso di laurea.

A.A. 1999/2000 - presente: titolare degli insegnamenti: *Chimica Generale ed Inorganica, Chimica Bioinorganica, Chimica Bioinorganica Applicata, Trattamenti Biotecnologici di Inquinanti, Processi Chimici bio-assistiti; Prodotti e Processi Biotecnologici Industriali* presso la Facoltà di Bioscienze e Biotecnologie e successivamente del Dipartimento di Scienze della Vita dell'Università di Modena e Reggio Emilia. Attualmente tiene i corsi di Chimica Generale per la L in Scienze Biologiche (6 CFU) e di Chimica Generale ed Inorganica per la LMCU in Farmacia (9 CFU).

PUBBLICAZIONI DEL PROF. MARCO SOLA

- (1) L. Antolini, L. Menabue, G.C. Pellacani, M. Saladini, L.P. Battaglia, A. Corradi, and M.Sola
X-Ray Evidence of Intermolecular Stacking Interactions in a Ternary Complex. Crystal and Molecular Structure of the Complex Bis(N-benzyloxycarbonyl glycinato)2,2'-bipyridine)(propan-2-ol)-copper(II). **J. Chem. Soc. Dalton Trans.**, **2319-2323 (1984)**.
- (2) L. Antolini, L. Menabue, M. Saladini, M. Sola, L.P. Battaglia, A. Bonamartini Corradi
Imidazole-Containing Ternary Complexes of N-benzyloxycarbonyl-aminoacids. Crystal and Molecular Structure of Bis(N-benzyloxycarbonyl-alaninato)bis(N-methylimidazole)copper(II) Ethanol solvate. **Inorg. Chim. Acta**, **93**, **61-66 (1984)**.
- (3) G. Battistuzzi Gavioli, G. Grandi, L. Menabue, G.C. Pellacani and M. Sola
The Effect of a Dansyl Group on the coordinative Ability of N-Protected Amino Acids. Part 1. Behaviour of the Copper(II)-N-Dansylglycinate System in Aqueous and Methanolic Solution. **J. Chem. Soc. Dalton Trans.**, **2363-2368 (1985)**.
- (4) L.P. Battaglia, A. Corradi, L. Menabue, M. Saladini, M. Sola, and G. Battistuzzi Gavioli
Solution and Solid State Behavior of Co(II), Ni(II) and Zn(II)-tosyl-aminoacidate Systems. Crystal and Molecular Structure of Bis(N-tosylglycinato)tetraaquo cobalt(II) and Bis(N-tosyl-b-alaninato)tetraaquo zinc(II) Complexes. **Inorg. Chim. Acta**, **107**, **73-79 (1985)**.
- (5) L. Antolini, G. Marcotrigiano, L. Menabue, G.C. Pellacani, L. Menabue and M. Sola
Coordination Behavior of L-Glutamic Acid: Spectroscopic and Structural Properties of (L-glutamato)(imidazole)copper(II), (L-glutamato)(2,2'-bipyridine)copper(II) and aqua(L-glutamato)(1,10-phenantroline)copper(II) Tetrahydrate. **Inorg. Chem.**, **24**, **3621-3626 (1985)**.
- (6) L. Antolini, L. Menabue, M. Sola, L.P. Battaglia, and A. Corradi
The Effect of a Dansyl Group on the Coordinative Behavior of N-Protected Amino Acids. Part 2. Binary Copper(II) Complexes and their Pyridine and 2,2'-Bipyridine Adducts. Crystal and Molecular Structure of the Complexes AquaBis(pyridine) Bis(N-dansyl glycinato)Copper(II) and (N-dansylglycinatoNO)(2,2'-bipyridine) (methanol) copper(II). **J. Chem. Soc. Dalton Trans.**, **1367-1373 (1986)**.
- (7) L. Antolini, A. Bonamartini Corradi, L.P. Battaglia, L. Menabue, G.C. Pellacani, M. Saladini and M. Sola.
Tridentate Facially Coordinate L-Aspartate Ion Complexation with the Copper(II) Ion: Spectroscopic and Structural Properties of Aqua (L-aspartato)(1,10-phenantroline)copper(II) Tetrahydrate. **Inorg. Chem.** **25**, **2901-2904 (1986)**.
- (8) I. Bertini, C. Luchinat, L. Messori, A. Scozzafava, G.C. Pellacani and M. Sola
¹³C NMR Study of the Synergistic Anion in Transferrins, **Inorg. Chem.**, **25**, **1782-1786 (1986)**.
- (9) L.P. Battaglia, A. Bonamartini Corradi and M. Sola.
The Role of Tosyl and Dansyl Groups on the Coordination Ability of N-Protected Amino Acids toward Copper(II) Ion, in "Advances in Free Radicals in Diseases", F.P. Corongiu, A. Tomasi and V. Vannini Ed. Cleup Padova, pp. 9-15 (1987).
- (10) L.P. Battaglia, A. Bonamartini Corradi, L. Menabue, M. Saladini and M. Sola
Spectroscopic, Magnetic and Structural Properties of Diaquomethanolbis(N-tosylvalinato)copper(II) and its 2,2'-bipyridine Adduct., **J. Chem. Soc. Dalton Trans.** **1333-1339 (1987)**.
- (11) I. Bertini, R. Monnanni, G.C. Pellacani, M. Sola, B.L. Vallee, and D. S. Auld
¹³C NMR Studies of Carboxylate Anion Binding to Cobalt(II)-Carboxypeptidase-A, **J. Inorg. Biochem.** **32**, **13-20 (1988)**.
- (12) I. Bertini, L. Messori, G.C. Pellacani and M. Sola.
Evidence of Metal-Synergistic Anion Bond in TI-Transferrin-carbonate, **Inorg. Chem.**, **27**, **761-762 (1988)**.
- (13) L. Antolini, L. Menabue, M. Saladini and M. Sola
The Effectiveness of Carboxyl as Primary Group in Aryl-SO₂-N-Protected Amino Acid-Copper(II) Systems: Solution and Structural Investigation of Cu(II)-N-tosyl-L-leucinate System. **Inorg. Chim. Acta**, **152**, **17-23 (1988)**.
- (14) G. Battistuzzi Gavioli, A. Bonamartini Corradi, M. Borsari, G.C. Pellacani, L. Menabue and M. Sola
The Effectiveness of the Cd(II) Ion in Promoting Sulfonamide Nitrogen Deprotonation. ¹¹³Cd NMR, Polarographic and pH-metric Investigations of the Cd(II)-N-tosylglycinate and Cd(II)-N-dansylglycinate Systems in Aqueous and Methanolic Solution. **Inorg. Chem.**, **27**, **1587-1592 (1988)**.
- (15) G. Battistuzzi Gavioli, L.P. Battaglia, A. Bonamartini Corradi, L. Menabue, M. Saladini, and M. Sola
Sulfonamide Nitrogen Containing, Nitrogen Protected Amino Acids Interacting with the Cd(II) Ion. A ¹¹³Cd NMR and Potentiometric Study. X-Ray Diffraction of [Cd(ts-α-AlaO)₂(H₂O)₄]. **J. Chem. Soc. Dalton Trans.**, **1345-1349 (1989)**.
- (16) M. Sola, J.A. Cowan, and H.B. Gray

- ¹H NMR Characterization of *C. gracile* High Potential Iron-Sulfur Protein and its Ruthenium-Modified Derivatives. Modulation of the Reduction Potentials in Low- and High-Potential [Fe₄S₄] Ferredoxins. **Biochemistry**, **28**, 5261-5268 (1989).
- (17) M. Sola, J.A. Cowan, and H.B. Gray
¹H NMR Spectra and Electron-Transfer Properties of Oxidized and Reduced [Fe₄Se₄] Derivative of *Chromatium vinosum* High-Potential Iron Protein. **J. Am. Chem. Soc.**, **111**, 6627-6630 (1989).
- (18) G. Battistuzzi Gavioli, M. Borsari, L. Menabue, M. Saladini, M. Sola, L.P. Battaglia, A. Bonamartini Corradi and G. Pelosi
Ternary Copper(II) Complexes with 2,2'-bipyridine and N-Tosyl-Substituted Aminoacids. Part 1. Polarographic and pH-metric Study. **J. Chem. Soc. Dalton Trans.**, **91-95** (1990).
- (19) G. Battistuzzi Gavioli, M. Borsari, L. Menabue, M. Saladini, M. Sola, L.P. Battaglia, A. Bonamartini Corradi and G. Pelosi
Ternary Copper(II) Complexes with 2,2'-bipyridine and N-Tosyl-Substituted Aminoacids. Part 2. Crystal and Molecular Structure of Aquabis (N-tosyl-DL-asparaginato-O) (2,2'-bipyridine)Copper(II) Dihydrate and (N-tosyl-DL-asparaginato-NO)(2,2'-bipyridine) Copper(II) Monohydrate. **J. Chem. Soc. Dalton Trans.**, **97-100** (1990).
- (20) M. Sola
¹¹³Cd and ¹³C NMR of Cadmium(II)-transferrins. **Inorg. Chem.**, **29**, 1113-1116 (1990).
- (21) L. Menabue, M. Saladini, and M. Sola
Deprotonated Amide Nitrogen Coordinating to the Pd(II) ion. Crystal and Molecular Structure of Disodium Bis(N-TosylglycinatoNO)Palladate(II). **Inorg. Chem.**, **29**, 1293-1295 (1990).
- (22) G. Battistuzzi Gavioli, M. Borsari, L. Menabue, M. Saladini and M. Sola
Sulphonamide Nitrogen-Containing N-Protected Aminoacids Interacting with Palladium(II). Polarographic and pH-Metric Investigation in Aqueous Solution. **J. Chem.Soc. Dalton Trans.**, **1585-1587** (1990).
- (23) J. A. Cowan and M. Sola
¹H NMR Hyperfine-Shifted Resonances from the Exchange-Coupled Fe₄S₄-Siroheme of the Assimilatory Sulfite Reductase from *Desulfovibrio vulgaris* (Hildenborough). **Inorg. Chem.**, **29**, 2176-2179 (1990)
- (24) J. A. Cowan and M. Sola
¹H NMR Studies of Oxidized High-Potential Iron Protein from *Chromatium vinosum*. Nuclear Overhauser Effect Measurements. **Biochemistry**, **29**, 5633-5637 (1990)
- (25) M. Sola, G. C. Pellacani and J. A. Cowan
Redox Equilibria in Metalloproteins and Characterization of Model Complexes. In "Advances in Free Radicals in Diseases", A. Tomasi F. Ursini and V. Vannini Ed. Vol.2 Cleup Padova, pp. 199-209 (1990)
- (26) L. Menabue, M. Saladini and M. Sola
Stabilizing Effects in Pd(II)-N-ArSO -Aminoacidate Complexes. Crystal and Molecular Structure of Disodium Bis(N-BenzenesulphonylglycinatoNO) Palladate(II) Monohydrate. **Inorg. Chim. Acta**, **176**, 95-98 (1990).
- (27) M. Sola
Oxalate as Synergistic Anion for Cd(II) Binding to Ovotransferrin. **Eur. J. Biochem.**, **194**, 349-353 (1990).
- (28) C. Luchinat, R. Monnanni, and M. Sola
¹³C and ¹H NMR Studies of Imidazole Binding to Native and Co(II)-Substituted Human Carbonic Anhydrase B. **Inorg. Chim. Acta**, **177**, 133-139 (1990).
- (29) L.P. Battaglia, A. Bonamartini Corradi, G. Pelosi, L. Menabue, M. Saladini, M. Sola, G. Marcotrigiano and P. Morini
Structural and Spectroscopic Properties of N-Benzenesulphonylglycine Complexes with Copper(II). **J. Cryst. Spectr. Res.**, **21**, 313-319 (1991).
- (30) I. Bertini, L. Banci, C. Luchinat and M. Sola
The Interaction of Inhibitors with Carbonic Anhydrase. In "Carbonic Anhydrase" F. Botre', G. Gros, B.T. Storey (Eds), VCH Publishers, Weinheim, (1991) pp. 86-94.
- (31) G. Battistuzzi Gavioli, M. Borsari, L. Menabue, M. Saladini and M. Sola
Cd²⁺ and Zn²⁺ Interacting with Aminoacids N-substituted by a Sulfonic Group. Effect of the Additional Ligand 2,2'-Bipyridine on the Metal Induced Amide Deprotonation. **Inorg. Chem.**, **30**, 498-502 (1991).
- (32) I. Bertini, F. Briganti, C. Luchinat, A. Scozzafava and M. Sola
¹H NMR Spectroscopy and the Electronic Structure of the High-Potential Iron Sulfur Protein from *Chromatium vinosum*. **J. Am. Chem. Soc.**, **113**, 1237-1245 (1991).

- (33) M. Borsari, M. Sola, and J. A. Cowan
Polarographic Studies of Chromatium vinosum High-Potential Iron Protein. Evidence for Surface Chemistry at the Hg-Electrode. **Bioelectrochem. Bioenerg.**, **26**, 123-129 (1991).
- (34) L. Forti, M. Saladini and M. Sola
Solid State Behaviour of N-Tosyl-DL-Asparagine-Cu(II)-2,2'-Bipyridine System. **Inorg. Chim. Acta**, **187**, 197-200 (1991).
- (35) G. Battistuzzi Gavioli, M. Borsari, L. Menabue, M. Saladini and M. Sola
Copper(II) Complexes with N-Sulphonyl Aminoacids. Structure-Stability Relationships in Binary Species and Ternary Complexes with 2,2'-Bipyridine. **J.Chem. Soc. Dalton.Trans.**, **2961-2965** (1991).
- (36) G. A. Battistuzzi and M. Sola
Fe³⁺ Binding to Ovotransferrin in the Presence of α -Aminoacids. **Biochim. Biophys. Acta**, **1118**, 313-317 (1992).
- (37) M. Sola
Enzymatic Redox Chemistry: A Proposed Reaction Pathway for the Six Electron Reduction of SO₃²⁻ to S²⁻ by the Assimilatory Sulfite Reductase from *Desulfovibrio vulgaris*. **Chemtracts**, **4**, 37-41 (1992).
- (38) A. Bonamartini Corradi, L. Menabue, M. Saladini, M. Sola and L.P. Battaglia
Deprotonated Amide Nitrogen Coordination to the Cd²⁺ Ion in Ternary 2,2'-Bipyridine Complexes with N-Sulfonyl Amino Acids. **J. Chem. Soc. Dalton Trans**, **2623-2628** (1992).
- (39) H.A. Azab, L. Banci, M. Borsari, C. Luchinat, M. Sola, and M. S. Viezzoli
Redox Chemistry of Superoxide Dismutase. Cyclic Voltammetry of Wild-Type Enzymes and Mutants on Functionally Relevant Residues. **Inorg. Chem.**, **31**, 4649-4655 (1992).
- (40) J.A. Cowan and M. Sola
Assignment of Heme Resonances in the ¹H NMR Spectrum of Oxidized *Desulfovibrio vulgaris* (Hildenborough) Cytochrome c₃. **Inorg. Chim. Acta**, **202**, 241-251 (1992)
- (41) I. Bertini, C. Luchinat, L. J. Ming, M. Piccioli, M. Sola, and J. S. Valentine
Two-Dimensional ¹H NMR Studies of the Paramagnetic Metalloenzyme Copper-Nickel Superoxide Dismutase. **Inorg. Chem.**, **31**, 4433-4435 (1992).
- (42) I. Bertini, K. Hiromi, J. Hirose, M. Sola and M. S. Viezzoli
Electron Transfer Between Copper-Zinc Superoxide Dismutase and Hexacyanoferrate(II). **Inorg. Chem.** **32**, 1106-1110 (1993).
- (43) M. Sola
Metal Poison Inhibition of Carbonic Anhydrase. **Chemtracts**, **5**, 40-45 (1993).
- (44) M. Sola
Ligand Variation and Metal Ion Binding Specificity in Zinc Finger Peptides. **Chemtracts**, **5**, 71-76 (1993).
- (45) C. Luchinat, F. Capozzi, M. A. Cremonini, and M. Sola
Assignment of Pseudocontact-Shifted ¹H NMR Resonances in the Yb³⁺-Substituted Rabbit Parvalbumin through a Combination of 2D Techniques and Magnetic Susceptibility Tensor Calculation. **Magn. Reson. Chem.**, **31**, S118-S127 (1993)
- (46) M. Sola
Aluminum-27 and Carbon-13 NMR Studies of Aluminum(3+) Binding to Ovotransferrin and its Half Molecules. **Chemtracts**, **5**, 201-208 (1993).
- (47) M. Sola
Structural Characterization of the Divalent Cation Sites of Bacterial Phosphotriesterase by ¹¹³Cd NMR Spectroscopy. **Chemtracts**, **5**, 320-325 (1993).
- (48) M. Sola, M. Borsari and J. A. Cowan
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