

CURRICULUM VITAE ET STUDIORUM: PROF. Gianantonio Battistuzzi



Personal data: Born in Modena (Mo), 25th October 1967
Present Position: Associate Professor of General and Inorganic Chemistry
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EDUCATION

- **December 1991** Degree in Chemistry (summa cum laude) at the University of Modena with a thesis entitled 'Gli α -amminoacidi mostrano attività sinergica per il legame dello ione Fe^{3+} e di altri ioni bi- e tri-positivi alle transferrine. Evidenze spettroscopiche', under the supervision of Prof. Giancarlo Pellacani and Dr. Marco Sola.
- **October 1996** Ph.D. in Chemistry at the Universities of Modena/Parma with a thesis entitled 'Caratterizzazione Spettroscopica ed Elettrochimica di Metallo-Proteine e Sistemi Modello.' under the supervision of Prof. Monica Saladini and Prof. Marco Sola.

VISITS AND STAYS

- **March - August 1996** Visiting scientist at the University of Münster, Germany

PREVIOUS POSITIONS AND FELLOSHIPS

- **From January 1997 to December 1998** Postdoctoral position at the Department of Chemistry of the University of Modena.
- **From January 1999 to October 1999.** Lecturer of Chemistry at the Department of Chemistry of the University of Modena and Reggio Emilia.
- **From November 1999 to September 2001.** Assistant Professor of General and Inorganic Chemistry at the Department of Chemistry of the University of Modena and Reggio Emilia.
- **From October 2001 to present date.** Associate Professor of General and Inorganic Chemistry at the Department of Chemistry and Geology (former Department of Chemistry) of the University of Modena and Reggio Emilia.

MEMBERSHIPS AND APPOINTMENTS

- Member of the Division of Inorganic Chemistry and of the Division of Chemistry of Biological Systems of the Italian Chemical Society.
- Member of the Society of Biological Inorganic Chemistry.
- Member of the Doctorate School in Chemistry of the University of Modena and Reggio Emilia (from the academic year 1999/2000 to 2005/2006)
- Member of the Doctorate School 'M2SCS-Multiscale Modelling, Computational Simulations and Characterization in Material and Life Sciences' of the University of Modena and Reggio Emilia (from the academic year 2006/2007 to 2013/2014)
- Member of the Doctorate School 'M3ES - PhD Course in Models and Methods for Materials and Environmental Sciences of the University of Modena and Reggio Emilia (from the academic year 2014/2015)

ACADEMIC DUTIES

- President of the Degree Course in Chemistry and Chemical Sciences from the academic year 2018/2019
- Supervisor of the Piano (ex-Progetto) nazionale Lauree Scientifiche – Area Chimica (PLS – National Plan for Scientific Degrees - Chemistry) for the University of Modena and Reggio Emilia from the academic year 2008/2009.

ORGANISATION OF SCIENTIFIC MEETINGS AND SCHOOLS

- Member of the Scientific committee of the workshop “International Workshop on Protein Electron Transfer: from Fundamentals to Applications for Health – ET4HEALTH 2013”, Modena, 29-30 October 2013.
- Member of the Organizing Committee of the congress “XXX Congresso di Nazionale Chimica Inorganica”, Modena, 15-19 September 2002
- Supervisor of Professional updating courses for high school chemistry teachers entitled
 1. “Nuovi Argomenti, Esperienze e Metodi Didattici nell’Insegnamento della Chimica (New topics, experiences and teaching methods for high school chemistry teaching)” from the academic year 2006/2007.
 2. “Nuovi approcci all’insegnamento della chimica per la riduzione della dispersione scolastica (New approaches in high school chemistry teaching to reduce school drop out rates)” from the academic year 2016/2017.

FUNDING AND PROJECTS

- Progetto Giovani Ricercatori 1999 (Young Researchers Project 1999) - Università di Modena e Reggio Emilia “Studio delle proprietà redox e del meccanismo di azione di metallo-enzimi con funzione antiossidante (Redox properties and catalytic mechanisms of antioxidant redox metalloenzymes)” Principal Investigator.
- PRIN 1998 “Proprietà redox e di riconoscimento molecolare in metalloproteine di trasporto elettronico e proteine RNA-binding e sistemi di mobilizzazione di metalli (Redox properties and molecular recognition in ET and RNA-binding metalloproteins and metal mobilization systems)”, Research Group Member
- Progetto di ricerca orientata 1998 –Università di Modena e Reggio Emilia “Organizzazione molecolare e riconoscimento tra partners in complessi proteici di trasferimento elettronico (Organization and molecular recognition in ET protein complexes)”, Research Group Member
- C.N.R. Project 1998 “Studi elettrochimici di citocromi c mitocondriali e batterici (Electrochemical study of mitochondrial and bacterial cytochromes c)”, Research Group Member
- C.N.R. Project 1999 “Termodinamica del processo redox e degli equilibri conformazionali in citocromi c mitocondriali e batterici (Thermodynamics of ET and of conformational equilibria in mitochondrial and bacterial cytochromes c)”, Research Group Member
- European COST Network 2001 “Heterogeneous Electron Transfer”, Research Group Member
- Finanziamento Fondazione Cassa di Risparmio di Modena (2002) “Stress ossidativo e morte cellulare programmata. Studio integrato chimico-biotecnologico-computazionale di proteine antiossidanti e di trasporto elettronico (Oxidative stress and programmed cell death. An integrated chemical-biotechnological-computational study of ET and antioxidant proteins)”, Research Group Member
- PRIN 2003 “Termodinamica del processo redox in metalloproteine di trasporto elettronico e metalloenzimi (Redox thermodynamics in ET metalloproteins and metalloenzymes), Research Group Member
- Marie Curie Research Training Networks EdRox: training and research in redox enzymology. Research Group Member

- PRIN 2007 “Sviluppo di biosensori elettrochimici di terza generazione basati su eme-proteine ingegnerizzate e sintetiche (Development of third generation electrochemical sensors based on recombinant and synthetic heme proteins), Research Group Member
- Finanziamento Fondazione Cassa di Risparmio di Modena (2008) “Superfici nano-strutturate per dispositivi del tipo “Lab-On-a-Chip” (Nano-structured surfaces for “Lab-On-a-Chip” devices)”, Research Group Member
- Progetto Lauree Scientifiche – Area Chimica (PLS – Project for Scientific Degrees - Chemistry) for the University of Modena and Reggio Emilia, academic year 2008/2009
- Piano nazionale Lauree Scientifiche – Area Chimica (PLS – National Plan for Scientific Degrees - Chemistry) for the University of Modena and Reggio Emilia from the academic year 2010/2011 to 2011-2012
- Piano nazionale Lauree Scientifiche – Area Chimica (PLS – National Plan for Scientific Degrees - Chemistry) for the University of Modena and Reggio Emilia, academic year 2012-2013
- Piano nazionale Lauree Scientifiche – Area Chimica (PLS – National Plan for Scientific Degrees - Chemistry) for the University of Modena and Reggio Emilia, academic year 2013-2014
- Piano nazionale Lauree Scientifiche - Area Chimica (PLS - National Plan for Scientific Degrees - Chemistry) for the University of Modena and Reggio Emilia from the academic year 2015/2016 to 2017/2018
- Piano nazionale Lauree Scientifiche - Area Chimica (PLS - National Plan for Scientific Degrees - Chemistry) for the University of Modena and Reggio Emilia, academic year 2018/2019

ACTIVITIES IN REFERRED SCIENTIFIC JOURNALS.

- Member of the Editorial Board of *Molecules*
- Guest Editor for a Special Issue (Electrochemical Biosensors: Design and Applications) of *Molecules*.
- Reviewer for *Journal of the American Chemical Society*, *Journal of Inorganic Biochemistry*, *Metallomics*, *Biochimica Biophysica Acta - Proteins and Proteomics*, *Journal of Biological Inorganic Chemistry*, *Journal of Molecular Structure*, *Archives of Biochemistry and Biophysics*, *Bioelectrochemistry*, *Computational and Structural Biotechnology Journal*, *Materials Chemistry and Physics*, *Biochemistry*, *Biomacromolecules*, *Molecules*, *Antioxidant*.

SELECTED INVITED PRESENTATIONS

- “Engineered metalloproteins for electrochemical sensing devices”, Department of Chemistry, Division of Biochemistry, BOKU – University of Natural Resources and Applied Life Sciences, Vienna, Austria, 29 May 2009
- “Elementi inorganici e biologia: un ossimoro vitale”, XIX Giornata della Chimica dell'Emilia Romagna, Department of Chemistry and Geology and Department of Life Sciences, University of Modena and Reggio Emilia, 6 December 2019

AWARDS

- **2013:** National Scientific Enabling (ASN) for the position of full professor in the sector General and Inorganic Chemistry (03/B1)

SUPERVISION OF PhD STUDENTS AND POSTDOCTORAL FELLOWS

- **2001-2004.** Supervisor of one Ph.D. Student, Dr. Alan Leonardi working on a thesis entitled ‘Studio del rapporto struttura-funzione in metallo-proteine native e ricombinanti (Investigation of the structure-function relationship in native and recombinant metalloproteins)’.
- **2011-2014.** Supervisor of one Ph.D. Student, Dr. Licia Paltrinieri working on a thesis entitled ‘Investigation of the effects of the environment on the dynamics/function relationship in metallo-proteins’.

- **2011-2014.** Co-supervisor of one Ph.D. Student of the Doctorate School “BioToP Biomolecular Technology of Proteins” at the University of Natural Resources and Applied Life Sciences (BOKU) of Vienna, Dr. Stefan Hofbauer working on a thesis entitled ‘Investigation of the effects of the environment on the dynamics/function relationship in metallo-proteins’.

TEACHING ACTIVITIES

- Teacher of the course: Laboratory of Inorganic Chemistry at the master of science in Chemistry, University of Modena and Reggio Emilia (from the academic years 1999-2000 to 2001-2002)
- Teacher of the course: Chemistry Chemistry at the Post-graduate School of Teacher Training, University of Modena and Reggio Emilia (from the academic years 2001-2002 to 2006-2007)
- Teacher of the course: Chemistry of Inorganic Materials at the master of science in Chemistry, University of Modena and Reggio Emilia (from the academic years 2002-2003 to 2009-2010 and 2012-2013 to 2014-2015)
- Teacher of the course: Inorganic Chemistry II at the master of science in Chemistry, University of Modena and Reggio Emilia (from the academic years 2010-2011 to 2011-2012)
- Teacher of the course: General and Inorganic Chemistry at the master of science in Chemistry, University of Modena and Reggio Emilia (from the academic years 2002-2003 to 2018-2019)
- Teacher of the course: Laboratory of Inorganic Synthesis at the master of science in Chemical Science, University of Modena and Reggio Emilia (from the academic years 2003-2004 to 2004-2005)
- Teacher of the course: Laboratory of Advanced Inorganic Chemistry at the master of science in Chemical Science, University of Modena and Reggio Emilia (from the academic years 2005-2006 to 2006-2007)
- Teacher of the course: Bioinorganic Chemistry at the master of science in Chemical Science, University of Modena and Reggio Emilia (from the academic years 2004-2005 to 2018-2019).
- Teacher of the course: Structural Biology at the master of science in Biotechnology, University of Modena and Reggio Emilia (from the academic years 2002-2003 to 2005-2006)

MAJOR COLLABORATIONS

- Prof. Marco Sola, University of Modena and Reggio Emilia, Italy
- Prof. Marco Borsari, University of Modena and Reggio Emilia, Italy
- Prof. Christian Obinger, BOKU – University of Natural Resources and Applied Life Sciences, Vienna, Austria
- Prof. Gerard Canters, Leiden University, The Netherlands
- Prof. Christopher Dennison, University of Newcastle, UK
- Prof. Claudio Luchinat, Università di Firenze, Italy
- Prof. James Cowan, Ohio State University, Columbus, USA
- Prof. Luigi Casella, Università di Pavia, Italy

BRIEF DESCRIPTION OF THE RESEARCH ACTIVITY

Gianantonio Battistuzzi works in the field of Bioinorganic Chemistry and is mainly interested in understanding the molecular determinants of the structural and functional properties of electron transfer (ET) metalloproteins (cytochromes *c*, blue-copper proteins and FeS proteins) and of redox metalloenzymes (heme peroxidases and copper oxidases). More recently, he started to study the behavior of native and mutated mitochondrial cytochromes *c* immobilized on inorganic surfaces, to explore the possibility of using them as constituents of protein-based nano-bio-sensors. The research activity of Gianantonio Battistuzzi is based on spectroscopic (UV-vis, NMR, CD, MCD and fluorescence), voltammetric and spectroelectrochemical techniques, supported by a computational

calculations, applied to native and mutated ET proteins and redox enzymes. The research group to which Gianantonio Battistuzzi belongs significantly contributed to the application of voltammetric techniques to the characterization of the redox properties of ET metalloproteins and introduced spectroelectrochemical techniques to analyze the reduction thermodynamics of redox metalloenzymes. Gianantonio Battistuzzi is co-author of 115 scientific papers published on peer-reviewed high-impact factors scientific journals and of more than 65 communications (presented either orally or as posters) in national and international scientific meetings.

OTHER INFORMATION

BIBLIOMETRIC INDICATORS AND SCIENTIFIC PRODUCTION

Total number of publications in scientific journals: 119

Total number of book chapters: 1

Total number of other publications: 16

Total number of citations: 2603 (Scopus) and 2.516 (WOS)

h-index: 28 (Scopus) and 27 (WOS)

PUBLIC ENGAGEMENT

Gianantonio Battistuzzi is heavily involved in public engagement activities, organizing and conducting scientific seminars for high school students and teachers and public exhibitions in the framework of the "European Researchers' Night" and the "Festival della Filosofia (Philosophy Festival)"

LIST OF SCIENTIFIC PUBLICATIONS ON INTERNATIONAL JOURNALS WITH IF.

1. G. Battistuzzi and M. Sola, "Fe³⁺ binding to ovotransferrin in the presence of α -aminoacids", *Biochimica Biophysica Acta* 1992, 1118, 313-317.
2. M. Borsari, R. Battistuzzi and G. Battistuzzi, "Preparation spectroscopic, magnetic, conductometric and polarographic characterization of cobalt(II)-1-phenyl-4,6-dimethylpyrimidine-2-thione complexes", *Collect. Czech. Chem. Commun.* 1993, 58, 1569-1590.
3. G. Battistuzzi, G. Gavioli, M. Borsari, L. Menabue, M. Saladini and M. Sola, "Pd²⁺ complexes of N-sulfonyl amino acids. Part 2. Coordination behavior in strongly acidic conditions.", *J.C.S. Dalton Transactions* 1994, 279-283.
4. G. Battistuzzi, E. Gozzoli, M. Borsari, L. Menabue, M. Saladini and M. Sola, "Pd²⁺ complexes of N-sulphonyl amino acids. Part 3. Ternary adducts with 2,2'-bipyridine", *J.C.S. Dalton Transactions* 1994, 285-287.
5. G. Battistuzzi, M. Borsari, F. Capozzi, C. Luchinat and M. Sola, "Influence of Surface Charges on Redox Properties in High Potential Iron-Sulfur Proteins", *Biochem. Biophys. Res. Comm.* 1994, 203, 436-442.
6. G. Battistuzzi, M. Borsari, D. Dallari and R. Battistuzzi, "Synthesis, Spectroscopic, Magnetic, Conductometric and Electrochemical Investigation of Nickel (II)-1-phenyl-4,6-dimethylpyrimidine-2-thione Complexes", *Trans. Met. Chem.* 1995, 20, 212-219.
7. G. Battistuzzi, L. Calzolari, L. Messori and M. Sola, "Metal Induced Conformational Heterogeneity of Transferrins: a Spectroscopic Study of Indium (III) and Other Metal (III) Substituted Transferrins", *Biochem. Biophys. Res. Comm.* 1995, 206, 161-170.
8. G. Battistuzzi, S. Ferretti, C. Luchinat and M. Sola, "Polymetallic Hydrolytic Zinc Enzymes. Probing the Site of Nuclease P1 through Cobalt(II) Substitution", *Inorg. Chim. Acta* 1995, 234, 9-11.

9. G. Battistuzzi, M. Borsari, S. Ferretti, C. Luchinat and M. Sola, "Magnetic Resonance of Fe-S Clusters: Isolation and Characterization of a 7-Fe Ferredoxin from *Rhodopseudomonas palustris*", Arch. Biochem. Biophys. 1995, 320, 149-154.
10. G. Battistuzzi, M. Borsari, S. Ferretti, M. Sola and E. Soliani, "Cyclic voltammetry and ^1H NMR of *Rhodopseudomonas palustris* Cytochrome c_2 . pH dependent conformational states", Eur. J. Biochem. 1995, 232, 206-213.
11. G. Battistuzzi, M. Borsari, D. Dallari, S. Ferretti, and M. Sola, "Cyclic voltammetry and ^1H NMR of *Rhodopseudomonas palustris* Cytochrome c_2 . Probing the chemistry of surface charges through anion binding studies", Eur. J. Biochem. 1995, 233, 335-339.
12. G. Battistuzzi, M. Borsari, L. Menabue, M. Saladini and M. Sola, "Amide group coordination to the Pb^{2+} ion", Inorg. Chem. 1996, 35, 4239-4247.
13. G. Battistuzzi, M. Borsari and M. Sola, "Effects of pH, ionic composition of the medium and temperature on the redox properties of electron carrier metalloproteins studied through voltammetric techniques. Cytochromes c as an example", Trends Inorg. Chem., 1996, 4, 1-8.
14. G. Battistuzzi, M. Borsari, D. Dallari, I. Lancellotti and M. Sola, "Anion binding to mitochondrial cytochromes c studied through electrochemistry. Effects of the neutralization of surface charges on the redox potential.", Eur. J. Biochem., 1996, 241, 208-214.
15. G. Battistuzzi, M. Borsari and R. Battistuzzi, "Redox Interconversion of $[\text{ReVO}]^{3+} \leftrightarrow [\text{Re(III)}]^{3+}$ Centers in Octahedral 4,6-Dimethyl-Pyrimidine-2-Thiolate/Triphenylphosphine Rhenium(V) and Rhenium(III) Mixed Complexes", Polyhedron, 1997, 16, 2093-2104.
16. G. Battistuzzi, M. Borsari and M. Sola, "Anion Binding to cytochrome c_2 . Implications on Protein-Ion in Class I Cytochromes c ", Arch. Biochem. Biophys., 1997, 339, 283-290.
17. G. Battistuzzi, M. Dietrich, R. Löcke and H. Witzel, "Evidence for a Conserved Binding Motif of the Dinuclear Metal Site in Mammalian and Plant Purple Acid Phosphatases. ^1H NMR Studies of the Diron Derivative of the Fe(III)Zn(II)-Enzyme from Kidney Bean.", Biochemical J., 1997, 323, 593-596.
18. G. Battistuzzi, M. Borsari, L. Loschi and M. Sola, "Redox thermodynamics, acid base equilibria and salt-induced effects for the cucumber basic protein. General implications on blue-copper proteins", J. Biol. Inorg. Chem, 1997, 2, 350-359.
19. G. Battistuzzi, M. Borsari, M. Sola and F. Francia, "Redox Thermodynamics of the Native and Alkaline Forms of Eukariotic and Bacterial Class I Cytochromes c ", Biochemistry, 1997, 36, 16247-16258.
20. A. Bavoso, A. Ostuni, G. Battistuzzi, L. Menabue, M. Saladini, and M. Sola, "Metal ion binding to a zinc finger peptide containing the Cys-X₂-Cys-X₄-His-X₄-Cys domain of a nucleic acid binding protein encoded by the Drosophila Fw-element", Biochem. Biophys. Res. Comm., 1998, 242, 385-389.
21. G. Battistuzzi, M. Borsari, G. Rossi and M. Sola, "Solvent effects on the redox properties of cytochrome c . Cyclic voltammetry and ^1H NMR experiments in mixed water/dimethylsulphoxide solutions", Inorg. Chim. Acta, 1998, 272, 168-175.
22. G. Battistuzzi, M. Borsari, L. Menabue, M. Saladini and M. Sola, "Palladium(II) complexes of N-sulfonyl-asparagine and glutamine. Evidence for the metal coordination of deprotonated amide nitrogen of the side-chain", Inorg. Chim. Acta, 1998; 273, 397-402.
23. G. Battistuzzi, M. Borsari, L. Loschi and M. Sola, "Redox properties of the Basic Blue Protein (Plantacyanin) from Spinach", J. Inorg. Biochem., 1998; 69, 97-100.

24. G. Battistuzzi, A. Bonamartini Corradi, D. Dallari, M. Saladini and R. Battistuzzi, "Synthesis, Crystal and Molecular Structure, Spectroscopic and Electrochemical Studies of μ -oxo-bis{oxo-bis(4,6-dimethylpyrimidine-2-thiolate)rhenium(V)} Complex", *Polyhedron*, 1998, 18, 57-63.
25. G. Battistuzzi, M. Borsari, L. Loschi, F. Righi and M. Sola, "Redox Thermodynamics of Blue Copper Proteins.", *J. Am. Chem. Soc.*, 1999, 121, 501-506.
26. G. Battistuzzi, M. Borsari, J. A. Cowan, C. Eicken, L. Loschi and M. Sola, "Redox Chemistry and Acid-Base Equilibria of Mitochondrial Plant Cytochromes *c*", *Biochemistry*, 1999, 38, 5553-5562.
27. G. Battistuzzi, M. Borsari, L. Loschi, A. Martinelli and M. Sola, "Thermodynamics of the Alkaline Transition of Cytochrome *c*", *Biochemistry*, 1999, 38, 7900-7907.
28. G. Battistuzzi, L. Loschi and M. Sola "¹H NMR of Oxidized Blue Copper Proteins", *J. Inorg. Biochem.*, 1999, 75, 153-157.
29. G. Battistuzzi, M. Borsari, L. Loschi and M. Sola " Effects of nonspecific ion-protein interactions on the redox chemistry of cytochrome *c*", *JBIC J. Biol. Inorg. Chem.*, 1999, 4, 601-607.
30. G. Battistuzzi, M. D'Onofrio, M. Borsari, M. Sola, A. L. Macedo, J. J. G. Moura and P. Rodrigues "Redox Thermodynamics of Low-Potential Iron-Sulfur Proteins", *JBIC J. Biol. Inorg. Chem.*, 2000, 5, 748-760.
31. G. Battistuzzi, M. Cannio and R. Battistuzzi "Synthesis, Magnetic, Spectroscopic and Electrochemical Studies of Mixed Pyrimidine-2-thiolate/triphenylphosphine Rhenium(V) and Rhenium (III) Complexes", *Polyhedron*, 2000, 19, 2163-2170.
32. G. Battistuzzi, M. Borsari, L. Loschi, A. Ranieri, M. Sola, B. Mondovì and A. Marchesini "Redox Properties and Acid-Base Equilibria of Zucchini Mavicyanin." *J. Inorg. Biochem.*, 2001, 83, 223-227.
33. G. Battistuzzi, M. Borsari, A. Ranieri and M. Sola, "Effects of Specific Anion-Protein Binding on the Alkaline Transition of Cytochrome *c*", *Arch. Biochem. Biophys.*, 2001, 386, 117-122.
34. G. Battistuzzi, M. D'Onofrio, L. Loschi and M. Sola, "Isolation and Characterization of two Peroxidases from *Cucumis sativus*", *Arch. Biochem. Biophys.*, 2001, 388, 100-112.
35. G. Battistuzzi, M. Borsari and M. Sola "Redox Properties of Cytochrome *c*", *ARS, Antioxidant and Redox Signaling*, 2001, 3, 279-291.
36. G. Battistuzzi, M. Borsari, L. Loschi, M. C. Menziani, F. De Rienzo and M. Sola "Control of Metalloprotein Reduction Potential: the Role of Electrostatic and Solvation Effects Probed on Plastocyanin Mutants." *Biochemistry*, 2001, 40, 6422-6430.
37. G. Battistuzzi, M. Borsari, G. W. Canters, E. de Waal, L. Loschi, G. Warmerdam and M. Sola "Enthalpic and Entropic Contributions to the Mutational Changes in the Reduction Potential of Azurin." *Biochemistry*, 2001, 40, 6707-6712.
38. G. Battistuzzi, M. Cannio, M. Saladini and R. Battistuzzi "Synthesis, crystal and molecular structure, spectroscopic and electrochemical studies of trichloro-oxo(4,6-dimethylpyrimidine-2(1H)-thione)(triphenylphosphine oxide) rhenium(V) complex." *Inorg. Chim. Acta*, 2001, 320, 178-183.
39. G. Battistuzzi, M. Borsari and M. Sola "Medium and Temperature Effects on the Redox Chemistry of Cytochrome *c*.", *Eur. J. Inorg. Chem.*, 2001, 2989-3004.
40. R. Battistuzzi, G. Battistuzzi, M. Borsari, and M. Cannio "Coordination chemistry of thio- and oxo-pyrimidine derivatives ", *Trends Inorg. Chem.*, 2001, 7, 151-166.

41. G. Battistuzzi, M. Borsari, A. Ranieri and M. Sola "Redox thermodynamics of the Fe³⁺/Fe²⁺ couple in horseradish peroxidase and its cyanide complex", *J. Am. Chem. Soc.*, 2002, 124, 26-27.
42. G. Battistuzzi, M. Borsari, J. A. Cowan, A. Ranieri and M. Sola "Control of Cytochrome *c* Redox Potential: Axial Ligation and Protein Environment Effects", *J. Am. Chem. Soc.*, 2002, 124, 5315-5324.
43. G. Battistuzzi, M. Borsari, A. Ranieri and M. Sola "Conservation of the free energy change of the alkaline isomerization in mitochondrial and bacterial cytochromes *c*.", *Arch. Biochem. Biophys.*, 2002, 404, 227-233.
44. G. Battistuzzi and M. Sola "A Comparison of the Inner-Sphere Reorganization Energies of Cytochromes, Iron-Sulfur Clusters and Blue Copper Proteins", *Chemtracts-Inorganic Chemistry* 2002, 15, 424-429.
45. G. Battistuzzi, M. Borsari, G. W. Canters, E. de Waal., A. Leonardi, A. Ranieri and M. Sola "Thermodynamics of the Acid Transition in Blue Copper Proteins", *Biochemistry*, 2002, 41, 14293-14298.
46. G. Battistuzzi, M. Bellei, M. Borsari, G. W. Canters, E. de Waal., Lars J. C. Jeuken, A. Ranieri and M. Sola "Control of Metalloprotein Reduction Potential: Compensation Phenomena in the Reduction Thermodynamics of Blue Copper Proteins", *Biochemistry*, 2003, 42, 9214-9220.
47. G. Battistuzzi, G. Di Rocco, A. Leonardi, and M. Sola "¹H NMR of native and azide-inhibited laccase from *Rhus vernicifera*", *J. Inorg. Biochem.*, 2003, 96, 503-506.
48. G. Battistuzzi and M. Sola "Metal-Ligand Interplay in Blue Copper Proteins Studied by ¹H NMR Spectroscopy: Cu(II)-Pseudoazurin and Cu(II)-Rusticyanin", *Chemtracts-Inorganic Chemistry* 2003, 16, 461-467.
49. G. Battistuzzi, M. Borsari, G. Di Rocco, A. Ranieri and M. Sola "Enthalpy-Entropy Compensation Phenomena in the Reduction Thermodynamics of Electron Transfer Metalloproteins.", *JBIC J. Biol. Inorg. Chem.*, 2004, 9, 23-26.
50. G. Battistuzzi, M. Bellei, C. A. Bortolotti, G. Di Rocco, A. Leonardi and M. Sola "Characterization of the Solution Reactivity of a Basic Heme Peroxidase from *Cucumis sativus*.", *Arch. Biochem. Biophys.*, 2004, 423, 317-331.
51. G. Battistuzzi, M. Borsari, A. Ranieri and M. Sola "Solvent-based deuterium isotope effects on the redox thermodynamics of cytochrome *c*", *JBIC J. Biol. Inorg. Chem.*, 2004, 9, 781-787.
52. M. Gerunda, C. A. Bortolotti, A. Alessandrini, M. Sola, G. Battistuzzi and P. Facci "Grabbing yeast iso-1-cytochrome *c* by Cys 102: an effective approach to the assembling of functionally active metalloprotein carpets.", *Langmuir*, 2004, 20, 8812-8816.
53. G. Battistuzzi, M. Borsari, G. Di Rocco, A. Leonardi, A. Ranieri, and M. Sola, "Electrostatic effects on the thermodynamics of protonation of reduced plastocyanin", *ChemBioChem*, 2005, 6, 692-696.
54. G. Battistuzzi, M. Borsari, G. W. Canters, G. di Rocco, E. de Waal, Y. Arendsen, A. Leonardi, A. Ranieri, M. Sola, "Ligand-Loop Effects on the Free Energy Change of Redox and pH-Dependent Equilibria in Cupredoxins Probed on Amicyanin Variants", *Biochemistry*, 2005, 44, 9944-9949.
55. G. Battistuzzi, M. Bellei, M. Borsari, G. Di Rocco, A. Ranieri, M. Sola "Axial ligation and polypeptide matrix effects on the reduction potential of heme proteins probed on their cyanide adducts", *JBIC J. Biol. Inorg. Chem.*, 2005, 10, 643-651.

56. G. Battistuzzi, M. Bellei, A. Leonardi, R. Pierattelli, A. J. Vila, A. De Candia, M. Sola "Reduction Thermodynamics of the T1 Cu-site in plant and fungal laccases." *JBIC J. Biol. Inorg. Chem.*, 2005, 10, 867-873.
57. M. Sola, G. Battistuzzi, M. Borsari "Modulation of the Free Energy of Reduction in Metalloproteins" *Chemtracts-Inorganic Chemistry*, 2005, 18, 73-86.
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BOOK CHAPTERS AND MANUSCRIPTS IN JOURNALS WITHOUT IF.

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