

PERSONAL INFORMATION

Maddalena Corsini



📍 **University of Siena**
Department of Biotechnology, Chemistry, and Pharmacy
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Sex Female | *Nationality* Italian

WORK EXPERIENCE

01/11/2021 – Present

Senior Researcher (RTDB)

University of Siena - Department of Biotechnology, Chemistry and Pharmacy. Via Aldo Moro, 2 53100 Siena (Italy)

- Electron-transfer ability of metal complexes (from coordination to organometallic derivatives) by electrochemical and spectroelectrochemical techniques (UV-vis-NIR, IR). Electrochemistry of inorganic compounds mainly covers sandwich complexes and metal complexes containing redox-active ligands. Study of antioxidant properties of natural products (wine, propoli, polyphenols etc.) by voltammetric technique, synthesis of new iron chelators, preparation and characterization of biocompatible films based on Metal-Phenolic-Networks and spectroscopic determination of nano and micro plastic inside plant tissues.

Business or sector Public University

2004 – 2021

Laboratory Technician

University of Siena - Department of Biotechnology, Chemistry, and Pharmacy. Via Aldo Moro, 2 53100 Siena (Italy)

Business or sector Public University

EDUCATION AND TRAINING

01/12/2014 - 01/12/2023

National scientific Qualification for Associate Professor

Sector 03/B1 Principles of Chemistry and Inorganic Systems

MIUR

25/06/2004

PhD Student in Chemical Sciences – Cycle XVI

University of Siena - Department of Biotechnology, Chemistry and Pharmacy. Via Aldo Moro, 2 53100 Siena (Italy)

-Thesis title: "Proprietà elettrochimiche e spettroscopiche di composti a sandwich: mono- e oligo-metalloceni"

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English

Job-related skills Communication, analytical and research skills

Digital skills Digital and communicating skills
Use of specific software (Origin, ChemDraw, ACDLabs, Voltassist) .
Ability to consult the main scientific database (Scifinder, Scopus, Web of Science, Pubmed)

ADDITIONAL INFORMATION

Publications total number of publications in peer-review journals: **63**
total number of citations: **1728**
H index: **25**

ADDITIONAL INFORMATION

Last 20-Publications

- Muccifora, S., Giorgetti, L., Corsini, M., Di Florio, G., Bellani, L. "Nano and submicron fluorescent polystyrene particles internalization and translocation in seedlings of *Cichorium endivia* L." (2022) 9 (12), pp. 4585-4598. DOI: 10.1039/d2en00732k
- Fusi, S., Di Florio, G., Margiotta, N., Barbanente, A., Cini, E., Finetti, F., Paradisi, L., Trabalzini, L., Fabrizi de Biani, F., Corsini, M. Synthesis, characterization, electrochemistry and in vitro cytotoxicity of a new "Triazole-Maltol" ligand and its platinum(II) complex (2022) 532, art. no. 120756, DOI: 10.1016/j.ica.2021.120756
- Manca, G., Fabrizi de Biani, F., Corsini, M., Cesari, C., Femoni, C., Iapalucci, M.C., Zacchini, S., Ienco, A., Inverted Ligand Field in a Pentanuclear Bow Tie Au/Fe Carbonyl Cluster, (2022) 61 (8), pp. 3484-3492. DOI: 10.1021/acs.inorgchem.1c03386
- Corsini, M., Zanello, P., The Redox Active [2Fe-2S] Clusters: Key-Components of a Plethora of Enzymatic Reactions—Part I: *Archaea*, (2022) 10 (1), art. no. 14, DOI: 10.3390/inorganics10010014
- Chiaino, E., Micucci, M., Budriesi, R., Mattioli, L.B., Marzetti, C., Corsini, M., Frosini, M., Hibiscus flower and olive leaf extracts activate apoptosis in SH-SY5Y cells, (2021) 10 (12), art. no. 1962, DOI: 10.3390/antiox10121962
- Bertelli, A., Biagi, M., Corsini, M., Baini, G., Cappellucci, G., Miraldi, E., Polyphenols: From theory to practice (2021) 10 (11), art. no. 2595, DOI: 10.3390/foods10112595.
- Evans, D.M., Hughes, D.D., Murphy, P.J., Horton, P.N., Coles, S.J., De Biani, F.F., Corsini, M., Butler, I.R., Synthetic Route to 1,1',2,2' -Tetraiodoferrocene That Avoids Isomerization and the Electrochemistry of Some Tetrahaloferrocenes, (2021) 40 (15), pp. 2496-2503. DOI: 10.1021/acs.organomet.1c00256.
- Fusi, S., Frosini, M., Biagi, M., Zór, K., Rindzevicius, T., Baratto, M.C., De Vico, L., Corsini, M., Iron(III) complexing ability of new ligands based on natural γ -pyrone maltol, (2020) 187, art. no. 114650, DOI: 10.1016/j.poly.2020.114650
- Corsini, M., Fusi, S., Synthesis and Characterization of 3-Hydroxy-2-(5'-Hydroxypentyl)-4H-Pyran-4-one and Study of Its Complexation with Iron(III), (2019) 64 (14), pp. 1836-1840. DOI: 10.1134/S003602361914002X
- Biagi, M., Noto, D., Corsini, M., Baini, G., Cerretani, D., Cappellucci, G., Moretti, E., Antioxidant Effect of the *Castanea sativa* Mill. Leaf Extract on Oxidative Stress Induced upon Human Spermatozoa, (2019) 2019, art. no. 8926075, DOI: 10.1155/2019/8926075
- Bonfio, C., Godino, E., Corsini, M., Fabrizi de Biani, F., Guella, G., Mansy, S.S., Prebiotic iron-sulfur peptide catalysts generate a pH gradient across model membranes of late protocells, (2018) 1 (8), pp. 616-623. DOI: 10.1038/s41929-018-0116-3

12. Anufriev, S.A., Erokhina, S.A., Suponitsky, K.Y., Anisimov, A.A., Laskova, J.N., Godovikov, I.A., Fabrizi de Biani, F., Corsini, M., Sivaev, I.B., Bregadze, V.I., Synthesis and structure of bis(methylsulfanyl) derivatives of iron bis(dicarbollide), (2018) 865, pp. 239-246. DOI: 10.1016/j.jorganchem.2018.04.019
13. Biagi, M., Collodel, G., Corsini, M., Pascarelli, N.A., Moretti, E., Protective effect of Propofenol® on induced oxidative stress in human spermatozoa, (2018) 50 (1), art. no. e12807. DOI: 10.1111/and.12807
14. Fabrizi de Biani, F., Corsini, M., Ienco, A., Peruzzini, M., Zanobini, F., More about the redox behavior of late transition metal triple-decker complexes with cyclo-triphosphorus, (2018) 470, pp. 428-432. DOI: 10.1016/j.ica.2017.07.014
15. Anufriev, S.A., Erokhina, S.A., Suponitsky, K.Y., Godovikov, I.A., Filippov, O.A., Fabrizi de Biani, F., Corsini, M., Chizhov, A.O., Sivaev, I.B., Methylsulfanyl-Stabilized Rotamers of Cobalt Bis(dicarbollide) (2017) 2017 (38), pp. 4444-4451. DOI: 10.1002/ejic.201700575
16. Vinogradov, M.M., Nelyubina, Y.V., Corsini, M., Fabrizi de Biani, F., Kudinov, A.R., Loginov, D.A.
17. 18435533400;15064448200;7004559920;6701827147;35473007900;6602142354;
18. Thioether Iron Complexes [(X-SMe-7,8-C2B9H10)Fe(C6H6)] (X = 9 or 10) as Synthons of Neutral Ferracarborane Fragments, (2017) 2017 (38), pp. 4627-4634. DOI: 10.1002/ejic.201700333
19. Muratov, D.V., Romanov, A.S., Corsini, M., Kudinov, A.R., de Biani, F.F., Siebert, W., The First Triple-Decker Complex with a Carbenium Center, [CpCo(μ-C3B2Me5)RuC5Me4CH2]+: Synthesis, Reactivity, X-Ray Structure, and Bonding, (2017) 23 (49), pp. 11935-11944. DOI: 10.1002/chem.201702571
20. Perekalin, D.S., Lyssenko, K.A., Kudinov, A.R., Corsini, M., Fabrizi De Biani, F., Synthesis of 13-vertex dimetallacarboranes by electrophilic insertion into 12-vertex ruthenacarboranes, (2017) 46 (45), pp. 15710-15718. DOI: 10.1039/c7dt03504g. DOI: 10.1002/zaac.201300647