

PERSONAL INFORMATION

ALESSANDRO COROZZI



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SHORT SUMMARY

I am an experienced researcher with a broad and solid science background. I graduated in Chemistry with a major in Theoretical chemistry at the University of Pisa in 2007. In the last 5 years, I worked as a PostDoc at ISSMC-CNR (former ISTECC-CNR) within Surface Chemistry and Material Science. My research's main objective is the synthesis, development, and characterization of thin-film ceramic coatings for antifouling and anti-icing applications. I got my Ph.D. degree from the Chemistry Department of the Technical University of Denmark – DTU with a thesis dissertation on Green Chemistry (Catalysis) with the development of an *ad-hoc* ReaxFF force-field for reactive simulations of bio-catalysts. I started my academic career with Prof. Benedetta Mennucci at the molecolab, University of Pisa, working on *ab-initio* QM and DFT modelling for opto-electronic applications with a special focus on polarizable continuum models for the solvent description.

As a collaborator to scientific projects, I am the author of publications in international peer-review journals, a Scientific Advisors, and Editor of Technical Reports for big European Companies and Institutions.

I actively worked for more than three years each within in the following two different areas* of Physical Sciences and Engineering:

PE4 -Physical and Analytical Chemical Sciences:

Theoretical and Computational chemistry (PE4_13), Chemical reactions: mechanisms, dynamics, kinetics and catalytic reactions (PE4_12)

PE5 - Synthetic Chemistry and Materials:

Surface modification (PE5_3) Thin films (PE5_4), New materials: oxides, alloys, composite, organic-inorganic hybrid, nanoparticles (PE5_6), Colloid chemistry (PE5_10)

*scientific areas from [ERC panel 2024](#)

EDUCATION

30 Settembre 2013

Ph.D. Computational Modelling

Technical University of Denmark - Anker Engelunds Vej 101 2800 Kongens Lyngby (DK)
Titolo tesi: *Computational Enzymology, a ReaxFF approach*

26 Aprile 2007

MSc Chemistry

Università di Pisa – Lungarno Pacinotti 43, Pisa
Titolo tesi: *Effetto della struttura e del solvente sulle proprietà ottiche non lineari di composti merocianinici*
Score 110/110