

FILIPPO PIERO BATTAGLIA CHEMISTRY GRADUATE

Passionate about **photochemistry** and **electrochemistry**, I am eager to apply my knowledge in the **energy** conversion and environmental **sustainability** sectors. I thrive on challenges, continuous learning, and roles that combine independence in decision-making with professional growth. I am highly motivated, adaptable, and not afraid of demanding workloads.

CONTACT

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- 🕈 Via Bagaro 12, Ferrara, IT
- ڬ 09/02/1998

SOFT SKILLS

- Passion
- Dedication
- Perseverance
- Autonomy
- Creativity

TECHNICAL SKILLS

B2 level - CEFR

ChemDraw; Origin, Sigmaplot, MestreNova, Python

HOBBIES

Play basketball

🗳 🛛 Study piano



Listening to music

° Drawing

EDUCATION AND TRAINING

Research FellowUniversity of Bologna | May 2024 - presentProject - Synthesis of catalytic cobalt complexes for hydrogen productuion with
innovative molecular-based hybrid photoelectrodes designSupervisor - Prof. Andrea FermiThematic - Synthesis and characterization of cobalt complexes and evaluation of the
catalityc efficiency in terms of photoactivated Hydrogen Evolution Reaction both in
omogeneous and eterogeneous phase by electrodes functionalizationMaster's degree:
ChemistryUniversity of Bologna | 2021-2024
Thesis title - Photophysical study of the interaction between CuInS2 quantum dots
and photochromic units.Supervisor - Paola CeroniSupervisor - Paola Ceroni

Grade - 110/110 cum laude

Internship and thesis projectUniversity of Bologna | March-December 2023Synthesis and characterization of CuInS2 quantum dots and surface functionalization with
synthetized azobenzene derivates. Study of the photophysical behavior of the hybrid system.

Bachelor's degree: Chemistry

University of Ferrara | 2017-2021

 Thesis title - Photoelectrochemical and photophysical properties of WO3/BiVO4 junctions.

 Supervisor - Stefano Caramori

 Grade - 103/110

 Internship and thesis project
 University of Ferrara | September-December 2020

 Research and literature study of the charge transport pathways in WO3/BiVO4

eterojunctions, with specific applications in photoelectrochemical water splitting.

PUBBLICATIONS

Bellatreccia, C.; Ziani, Z.; Germinario, A.; Engelaar, S.; Battaglia, F. P.; Gradone, A.; Villa, M.; Ceroni, P. **Dual Luminescent Mn(II)-Doped Cu-In-Zn-S Quantum Dots as Temperature Sensors in Water.** Small 2024, 20 (48), 2404425.

Ziani, Z.; Bellatreccia, C.; Battaglia, F. P.; Morselli, G.; Gradone, A.; Ceroni, P.; Villa, M. Copper Indium Sulfide Quantum Dots Enabling Quantitative Visible Light Photoisomerisation of (E)-Azobenzene Chromophores. Nanoscale 2024, 16 (27), 12947–12956.

CONFERENCES, WORKSHOPS, AND SCHOOLS

IPM 2024

Type of Contribution - Poster presentation Title - Synthesis of catalytic cobalt complexes for hydrogen productuion with innovative molecular-based hybrid photoelectrodes design