# Elisabetta Orfei

28/05/1997 Bologna (BO), Italy

## *Process Development Chemist*

I am an **Industrial Chemist** with a profile enriched with knowledges about Ecology, Biotechnology, and Life Cycle Assessment (LCA).
People describe me as a **proactive**, **kind**, and **organised** person.
I love working in teams and I am used to cooperate with mates from different backgrounds.
The fields in which I am more interested are: **Business Sustainability Consultancy**, **Industrial Sustainable Development**, and **Industrial scale-up**.

## Languages

- ITALIAN
- ENGLISH — B2/C1

## Informatic Competences

- **Office** (Word, Excel, PowerPoint)
- **Graphics** (Canva, Genially, Mirò)
- **Social Media**

## Technical Competences

- XRD, GC, Raman, NMR, TGA, DSC, ATR, UV-Vis, CV, EIS, SEM Analysis
- ChemDraw, Chem3D, OriginPro, X'Pert High Score, OpenLCA, Nova, STAN 2.

## Interests and Hobbies

Reading · Sports · Embroidery · Sustainability · Animal rights

## Contacts

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**04/11/2022**

## Education

**Nov '22- now** — **PhD in Industrial Chemistry**

- Ni@CeZrO2 catalysts production
- Biogas conversion and Electrolysis Integration for Sustainable Hydrogen Production

**Dec '19-Oct '21** — **Climate-KIC Master Label**

- 4-week Climate Innovation Summer School (Journey 2021)
- Business Plan course
- System Thinking and Mapping
- System Innovation Plan on Food Consumption

**Oct '19-Oct '21** — **MSc in Low Carbon Technologies and Sustainable Chemistry - 110/110 cum laude**

*Alma Mater Studiorum - Università di Bologna*
*LM 71 - Scienze e Tecnologie della Chimica Industriale*

- International Master Degree thought in English
- Experimental Thesis in Sustainable Chemical Technologies with the title "*A step further towards the application of layered double hydroxides in Sustainable Catalysis: from artificial photosynthesis to wastewater treatment*"
- Synthesis, characterization and study of (photo)catalysts
- Photoelectrochemical cells development and optimization

**Oct '16-Jul '19** — **Bachelor Degree in Industrial Chemistry - 110/110 cum laude**

*Alma Mater Studiorum - Università di Bologna*
*LM 71 - Scienze e Tecnologie della Chimica Industriale*

- Experimental Thesis in Polymer Science with the title *"Synthesis and characterizations of methyl metacrylate and 4-vinylphenol based copolymers"*

## Experience

**Nov '21-now** — **Research Scholarship**
Alma Mater Studiorum University of Bologna
Development and Impact Analysis of photoelectrochemical systems for fuel and energy production and sotrage

**Feb-Sept '21** — **Full-time intern at ISTEC-National Research Council**
ISTEC-CNR Faenza (RA), Italy
Synthesis and study of photoelectrocatalytic systems for energy (DSSC) and solar fuel (DSPEC) production

**2019-2021** — **Tutor of the Industrial Chemistry bachelor's degree course**

**Sept-Dec '19** — **Post graduate training**
Alma Mater Studiorum University of Bologna
Department of Industrial Chemistry
Thermal and spectroscopic analysis of biopolymeric blends

**Feb-Jul '19** — **Curricular Internship**
Alma Mater Studiorum University of Bologna
Department of Industrial Chemistry
Synthesis and characterization of compatibilizers of biopolymeric blends

## Pubblications

**Submitted scientific papers:**

- *Layered-Double Hydroxides and derived oxide as CRM-free highly active catalysts for the reduction of 4-nitrophenol*
- Catalysts for advanced hydrogen production scheme based on methane oxy-reforming

## Other activities

- While studying, **tutoring** and extra lessons to Bachelor Degree students
- **Volunteering** activities in local organizations fighting for animal rights