



Sara Amadori

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ABOUT MYSELF

My being ambitious, in life and work, allows me to feel comfortable in challenging and dynamic settings that give me the opportunity to learn new things every day and consolidate the knowledge I already possess improving myself over time. I enjoy working in a team and, to date, I can consider myself capable of making my contribution both as a leader and as a team member.

EDUCATION AND TRAINING

PhD in Materials Science and Technology (XXXIX cycle)

University of Parma in partnership with ISSMC-CNR (Faenza) [01/11/2023 – Current]

City: Faenza | Country: Italy | Level in EQF: EQF level 8

The activity will fit into the production of inorganic nanophases with adsorptive, antimicrobial and photocatalytic that can be used in different industrial sectors (water treatment, coatings, biomedical) and obtained through processes aligned with the principles of safe&sustainable by design also by valorizing waste products from the marine sector (algae, microalgae, bioactive molecules produced from marine biota). In particular, the activity aims as an objective to prepare new hybrid materials, coupling inorganic nanophases with natural compounds capable of maximizing functionality through synergistic effects and meeting the three main requirements of efficacy, safety and sustainability. The hybrid nanomaterials obtained in suspension will be properly -processed to meet the needs of the explored application areas: deposition techniques on textile surfaces (dip coating), controlled granulation (e.g., spray freeze drying, spray drying), incorporation into multi-component porous scaffolds (freeze drying).

Master's Degree in Industrial Chemistry

Alma Mater Studiorum University of Bologna - Dept. of Industrial Chemistry "Toso Montanari" [15/10/2020 – 24/03/2023]

City: Bologna | Country: Italy | Final grade: 110 Cum Laude | Level in EQF: EQF level 7 | Thesis: "Development and engineering of multifunctional composite materials applicable in the abatement of pathogenic microorganisms and in water treatment."

- Development and engineering of multifunctional nanocomposite materials that can be implemented in different fields;
- Applications through processes aligned with the principles of safe&sustainable by design: antiviral nasal sprays and bionanocomposite scaffolds for water purification.
- Optimization of environmentally friendly synthesis procedures of antimicrobial inorganic nanophases coupled with phytocompounds and antiviral/ antimicrobial biopolymers in order to explore new synergistic effects, maximize functionality and reduce impact on humans and the environment.
- Chemical and physical characterization by analysis: ELS, DLS, XRD, UV-Vis, FT-IR, pH, TEM, BET, SEM-FEG, SEM-EDS.
- Evaluation of functional performance of nanocomposites by antiviral, antibacterial and adsorption tests of model pollutants (Cu, Methyl Orange and Rhodamine B).

Degree in Chemistry and Technologies for the Environment and Materials

Alma Mater Studiorum University of Bologna - Campus of Ravenna [02/10/2017 – 14/10/2020]

City: Faenza | Country: Italy | Final grade: 108/110 | Level in EQF: EQF level 6 | Thesis: "Development of filters Innovative Water Purification."

- Study and development of innovative materials for water purification (biomass, TiO₂, AgNPs, biopolymers) addressing the need to innovate materials used in this application field, adding to the ability to photodegrade also the ability to absorb pollutants such as heavy metals.
- Exploration of different immobilization techniques: embedding in hydrogel matrices, granulation via sprayfreeze-drying.

Diploma

Liceo Scientifico Torricelli-Ballardini [08/09/2011 – 06/06/2017]

City: Faenza | Country: Italy | Level in EQF: EQF level 4

WORK EXPERIENCE

Curricular internship

ISSMC-CNR [27/06/2022 – 24/03/2024]

City: Faenza | Country: Italy

- Research and development of multifunctional nanocomposite materials by processes aligned with the principles of the safe&sustainable by design: antiviral nasal sprays and bionanocomposite scaffolds for water purification.
- Optimization procedures for synthesis of antimicrobial silver nanoparticles (AgNPs) coupled with phytocompounds and antiviral/antibacterial biopolymers in order to explore new synergistic effects, Study of the activity antibacterial, antiviral (SARS-CoV-2) and pollutant adsorption.

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

Windows / MacOS / Office / ChemDraw

DRIVING LICENCE

Driving Licence: B

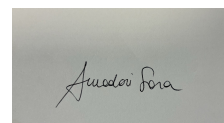
ORGANISATIONAL SKILLS

Soft Skills

- Attention to detail
- Flexibility
- Adaptability
- Organization

I authorize the processing of personal data contained in my curriculum vitae according to art. 13 of D. Lgs. 196/2003 and all'art. Article 13 of EU Regulation 2016/679 on the protection of natural persons with regard to the processing of personal data.

Faenza, 09/09/2024



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