



# Farnaz AMANI

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## EDUCATION and TRAINING

- **PhD in Battery Technology** | Oct 2024 – Ongoing

Centre national de la recherche scientifique (CNRS), Integration from Material to Systems (IMS)/ Institut de Chimie de la Matière Condensée de Bordeaux (ICMCB), University de Bordeaux, France

- **MSc in Double Mater In Polymer Science (DMIPS)** | Sep 2022 – Jul 2024

(1) University de Bordeaux, France | Master in Polymer Science

**Thesis:** *Saccharide Responsive Water in Water Emulsions for Protein Delivery*

- Synthesized different water in water emulsion systems in order to optimize a drug delivery system for controlled insulin–glucose release
- The second Master's degree of the program focused on colloids, polymerization techniques, self-assembly processes, and sustainable material development, with an emphasis on bio-based and recyclable polymers. Explored elastomers and their industrial applications. The program also covered the organic chemistry of polymers, colloidal systems, surfactants, and polymer rheology.

(2) University of The Basque Country (UPV/EHU) | Master in Material Science

**Thesis:** (a) *Organic Mixed Ionic–Electronic Conductive (OMIEC) polymers for energy applications*

(b) *Organic Mixed Protic–Electronic Conductive polymers for hydrogen production*

- Synthesized conductive polymer blends as cathode binders to reduce PVDF usage.
- Synthesized polymer blends in order to optimize polymer systems to enhance green hydrogen generation.
- The first Master's degree of the program focused on the fundamental aspects of polymers, including polymer chemistry, physics, thermodynamics, characterization, reaction engineering, and processing.

- **BSc in Polymer - chemical Engineering** | Sep 2016 – Mar 2021

**Thesis:** *Preparation and study on properties of dual responsive block copolymer-grafted polypyrrole smart Janus nanoparticles*

- Studied the fundamentals of polymers and their industrial applications, including inks, coatings, and elastomers.
- Contributed to a research group for over two years, focusing on the synthesis and characterization of conductive polymers using various techniques.
- Published three ISI-indexed articles as a result of this research collaboration