

# SEYEDMAHDI HOSEINI

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**Phone number:** (+39) 0 (Mobile) | **Email address:** [REDACTED] | **Address:** Italy (Home)

## ● ABOUT ME

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- An MSc graduate in Chemical Engineering with a passion for Process Engineering, Environmental Engineering, Sustainable Materials, and Recovery systems.
- Excellent written communication and presentation skills in English.
- Proven interpersonal skills, with the ability to work efficiently as a team player and under pressure.
- Eager to utilize knowledge and skills in optimizing manufacturing processes to improve safety, efficiency, and sustainability.

## ● EDUCATION AND TRAINING

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05/09/2021 – 25/07/2024 Roma, Italy

**MASTER OF SCIENCE IN CHEMICAL ENGINEERING** Sapienza University of Rome

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A groundbreaking study on the two different BDD electrodes based on their properties determined by different characterization test, and their application in the presence of ozone.

**Website** <https://www.uniroma1.it/en/pagina-strutturale/home> | **Field of study** Chemical Engineering |

**Final grade** 108 out of 110 |

**Thesis** Impact of Doping Level on the Characterization, Electrochemical Behavior, and Application of BDD Electrodes

08/2016 – 04/2021 Tehran, Iran

**BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING** Amirkabir University of Technology (Tehran polytechnic)

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A review study on the different recovery methods of RO module membranes

**Website** <https://aut.ac.ir/en> | **Final grade** 16.28 out of 20 |

**Thesis** Investigation of the recovery methods of used industrial membranes and reuse of them.

## ● WORK EXPERIENCE

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01/04/2023 – 01/07/2024 Roma, Italy

**RESEARCH ASSISTAANT**

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Working as a research assistant at the laboratory of my supervisor to conduct my MSc thesis related to the applications of BDD electrodes in different processes and their characterizations.

07/2019 – 09/2019

**INTERNSHIP AT JAM PETROCHEMICAL COMPANY**

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Internship student and supervisor engineer in the different plants (Olefin, Butadiene, butene-1, LLDPE and HPDE) at Jam Petrochemical Company.

## ● PROJECTS

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**Investigation about the properties of Benzopyrene and the Technologies to remove it from water and wastewater.**

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Group research and presentation which was conducted for the course on water treatment processes and environmental technology and the highest mark was achieved, Fall of 2022.

**Investigate the temporal evolution of the concentration field in the 2-d square cavity.**

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An academic project with MATLAB and COMSOL Multiphysics for the course of theory and development of chemical processes in Master of degree courses, winter, and spring of 2022

## A simulation of a deethanization plant for enhancing propane and propylene recovery by Aspen HYSYS V.10.

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As final research for the Chemical Engineering Software Workshop (24 hours), A HYSYS simulation was conducted based on a scientific paper, summer of 2020.

## Investigating the compatibility of Styrene, Potassium hydroxide (solid), Methanol, and Water by Chemical Reactivity Worksheet software

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For the course on process and product safety in the chemical industries, a brief simulation carried on about the compatibility of different substances which were mentioned in the title, spring of 2019.

## An Introduction to Solid Oxide Fuel Cell (SOFC)

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A General research and presentation was conducted for the course of Research Methods & Report Writings, Winter of 2019

## HAZOP Study of Reactor and Compressor Units in the Tennessee Eastman Process

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A HAZAOP project was conducted in a group for the course of product safety in the chemical industries based on the article, which is hyperlinked in the title, spring of 2019.

## RESEARCH INTERESTS

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### Fields

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Process Engineering  
Water and Wastewater Treatment  
Environmental Engineering  
Electrochemical Engineering  
Sustainable Materials  
Materials Characterization  
Advanced Materials  
Green and Environmental Chemistry

## SKILLS

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### Computer and Programming skills

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**Programming:** Python, MATLAB.

**Simulation and Analysis Software:** Aspen HYSYS, COMSOL, PDMS, HTRI, AutoCAD.

**Technical skills:** Proficient in interpreting PFD and P&ID diagrams, high knowledge of Piping.

**Other software:** Microsoft Office

## LANGUAGE SKILLS

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Mother tongue(s): **PERSIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C1	C1	C1
<b>ITALIAN</b>	A2	A2	A2	A2	A2

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

## RECOMMENDATIONS

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**Dr. Elisabetta Petrucci** Associate Professor

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**Dr. Cecilia Bartuli** Full Professor

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