

FARID ATASHI

PERSONAL DATA

Date of Birth: 10/11/1990

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OBJECTIVE

I am a **Ph.D. candidate** at the University of the Basque Country, and my research focuses on **biomass pyrolysis and in-line oxidative steam reforming for hydrogen production**. I am dedicated to advancing sustainable energy solutions and enhancing the efficiency of waste-to-energy conversion technologies. My goal is to pursue an academic career, contributing to cutting-edge research in clean energy and hydrogen production while collaborating in interdisciplinary and international research environments.

EDUCATION

Jun 2024 - Present	PhD in Chemical Engineering, University of the Basque Country Thesis Title: Step forward in the oxidative steam reforming of the biomass pyrolysis volatiles for hydrogen production <i>Supervisors: Prof. Maider Amutio and Dr. Laura Santamaria</i>
Feb. 2018 - Nov. 2020	M.Sc. in Chemical Engineering, Process Design, University of Tabriz Thesis Title: Investigating the Thermochemical Cracking Procedure of Polyethylene Terephthalate in Catalytic Pyrolysis with zeolite. <i>Supervisors: Prof. Mortaza Gholizadeh and Prof. Aligholi Niaei</i> GPA: (18.02 / 20.00)
Sep. 2009 – Des. 2012	B.Sc. in Chemical Engineering, Petrochemical industry, IAU Ahar GPA: (18.27 / 20.00)

RESEARCH INTERESTS

Recycling, Pyrolysis, Hydrogen Production, Reforming, Upgrading of the Bio-oil, Biofuels, Gasification, Biomass, Catalytic Processes, Waste to Energy Processes

EXPERIENCE

Teaching Assistant 2019-2021	Kinetics & Reactor Design Course, Prof. Mortaza Gholizadeh, University of Tabriz, Tabriz, Iran
Research Assistant 2017-2021	Energy Lab, Faculty of Petroleum and Chemical Engineering, University of Tabriz, Tabriz, Iran
Reviewer	Chemical Engineering Journal Journal of Environmental Chemical Engineering Case Studies in Chemical and Environmental Engineering

PUBLICATIONS

- ❖ Li, Chao, Farshad Ataei, **Farid Atashi**, Xun Hu, and Mortaza Gholizadeh. "Catalytic pyrolysis of polyethylene terephthalate over zeolite catalyst: Characteristics of coke and the products." *International Journal of Energy Research* (2021). (Chao Li, Farshad Ataei, and **Farid Atashi** contributed equally to this work.) <https://doi.org/10.1002/er.7078>
- ❖ **Farid Atashi**, Mortaza Gholizadeh, and Farshad Ataei. "Pyrolysis of bottle-grade polyethylene terephthalate: Effect of carrier gases on carriage of pyrolysis products." *Polymer Engineering & Science* (2022). <https://doi.org/10.1002/pen.26025>
- ❖ **Farid Atashi**, Mortaza Gholizadeh, and Farshad Ataei. "Pyrolysis analysis of polyethylene terephthalate: effects of carrier gases (N₂, He, and Ar) and zeolite catalyst (A4) on yield." *Journal of Chemical Technology & Biotechnology* (2022). <https://doi.org/10.1002/jctb.7200>
- ❖ **Farid Atashi**, Aligholi Niaei, and Mortaza Gholizadeh. "Investigating the catalytic pyrolysis of polyethylene terephthalate in the presence of zeolite catalyst to convert it into liquid fuel." *Nashrieh Shimi va Mohandesi Shimi Iran* (2022). https://www.nsmsi.ir/article_242400.html
- ❖ Milad Hoseini, **Farid Atashi**, Mortaza Gholizadeh. "Coke formation and zeolite catalyst effects on products from co-pyrolysis of waste tyre and poplar wood in a semi-batch reactor under N₂ atmosphere". *Energy Technology* (2024). <https://doi.org/10.1002/ente.202300740>

ONGOING PROJECT

Plastic Pyrolysis Review: A closer inspection of the pyrolytic conversion of waste plastics, with a specific focus on PE, PET, PP, PVC, and PS, into energy products. “Brazilian Journal of Chemical Engineering” (Under Review)

AWARDS

FPI Fellowship (Formación de Personal Investigador), 2024 Funded by Spanish Ministry of Science and Innovation

LABORATORY SKILLS

Analytical Techniques: XRD, FT-IR, GC-MS, UV-fluorescence spectroscopy, TGA, TEM, BET, GC

OTHER SKILLS

- Language Skills

❖ English (Fluent)	Azarbaijani (Native)
❖ Persian (Native)	Turkish (Intermediate)

- Soft Skills

❖ Communications	Team Work	Leadership	Time Management
❖ Problem-Solving	Creativity	Work Ethic	Adaptability

ACTIVITIES

Listening to music, Playing football, Watching movies and series, Getting along with Friends and Groups
Mountaineering

REFERENCES

Prof. Maider Amutio (Supervisor, PhD Program)

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Dr. Laura Santamaria (Supervisor, PhD Program)

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