

Yosra Gherib

Ph.D. in Inorganic Chemistry

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A multidisciplinary scientific chemist, worked on porous materials synthesis mainly zeolites, supported metal catalyst preparation, conducted thorough characterization, and published scientific findings.

Professional Experience

July 2021 - Current

Research & Development Scientist, *Ranido s.r.o., Prague, Czech Republic.*

- Spearheaded PyroCO₂ European project, focusing on catalytic hydrogenation.
- Designed catalyst synthesis and conducted performance testing, notably precious metal impregnation on diverse supports for commercialization potential.
- Developed a method for noble metal recovery from organic waste catalysts.
- Lead analytical methods mainly Gas Chromatography.

Feb 2018 - Jun 2021

Post-doctoral Researcher, *Physical Chemistry Department, University of Pardubice, Czech Republic.*
Supervisor: Roman Bulanek

- Directed the solvent-free synthesis of Mordenite and organic-free synthesis of layer-like FAU-type zeolites, enabling mesoporous nanosheet assemblies.
- Conducted experiments on alkali metal exchanged FER zeolites for adsorptive separation of light hydrocarbons.
- Hold on in situ FTIR experiments of probe molecules to study the hydrocarbon interaction with different cationic sites, crucial in olefin/paraffin separation.

Oct 2016 - Dec 2018

Assistant, *Central University, Tunisia*

- Focused on enhancing teaching methodologies for chemistry courses.

Sep 2013 - May 2015

Researcher, *Institute of Chemical Technology, Valencia, Spain. Supervisor: Avelino Corma*

- Designed and tested a novel zeolitic material for petroleum refining, improving propylene yield in fluid catalytic cracking.

Sep 2009-May 2016

Ph.D. study, *National Research Center for Materials Science, Tunisia.*

- Designed synthesis and modification approaches for various zeolites, focusing on applications in gas purification, wastewater treatment, and water softening.
- Applied several techniques for textural and physicochemical characterization, such as FTIR, UV-Vis, XRD, BET, ICP OES, and TGA-MS.

Education

2010-2016	Ph.D.: Applied Chemistry	NCRMS, Borj Cedria, Tunisia.
2008-2010	Master's degree: Applied Chemistry	INSAT, Tunisia.
2003-2009	Engineering degree: Industrial Chemistry	INSAT, Tunisia.

Languages: English (B2), French (C1), Arabic (mother tongue).