

## **Dr. Soukaina Lamnini: Advancing Sustainable Solutions for CO<sub>2</sub> Capture through Innovative Materials**

**Dr. Soukaina Lamnini** is a distinguished scientist in the **MSN Department at University Mohammed VI Polytechnic (UM6P)**, specializing in the development of innovative and sustainable porous materials for CO<sub>2</sub> capture. Her groundbreaking research focuses on utilizing low-cost raw materials and industrial waste to create efficient solutions for environmental challenges. She obtained her **Ph.D. in Materials Science and Technologies from Óbuda University in Budapest in 2020**, graduating "**Summa Cum Laude**."

**Dr. Lamnini is a member of the Gas Capture & Utilization Group, led by Pr. Johan Jacquemin at MSN.** Before joining UM6P, Dr. Lamnini worked on the **NewSoc project at Politecnico di Torino**, enhancing **Solid Oxide Cells**. With expertise in **3D printing and sustainable material development**, she is committed to advancing innovative solutions for **climate change**. Through her teaching, she also shapes future scientists in the field of **material science**.

Dr. Lamnini also actively teaches courses on **solid surface adsorption principles** and **material testing methods**, shaping the next generation of scientists. Her work in materials science has established her as an expert in **sustainable technologies**, and her research continues to push the boundaries of what is possible in **CO<sub>2</sub> capture and environmental sustainability**.