Materials for storage and conversion of CO2 toward clean environment

Subteam 1: Preparation of materials

Porous InSb with enormous surface area can be used as a support.

Binding active molecules or enzymes to catch CO2

Subteam 2: Characterization and modeling

- Raman, AFM, XRD, TEM, MS, XPS, electrochemistry
- Modeling of the adsorption of CO2 molecules on the surfaces of the synthesized materials

Subteam 3: Testing and scale up

Removing CO2 for using as a precursor for producing new materials (e.g through photocatalysis, transforming it into methanol, etc.)