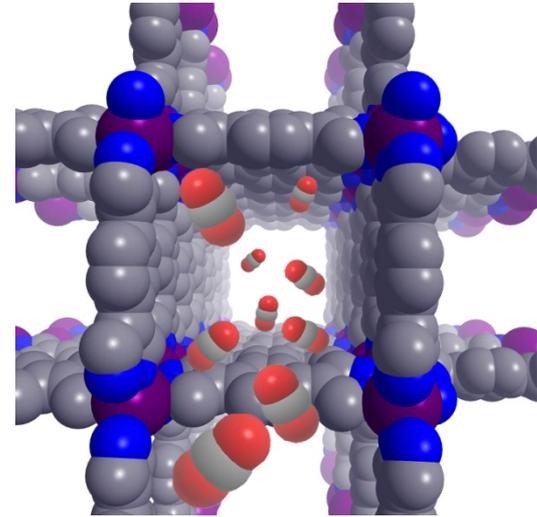


The aim of this EFRC is to develop **new** strategies and materials that allow for **energy efficient** selective **capture** or separation of CO₂ from gas mixtures based on molecule-specific chemical interactions.



RESEARCH PLAN AND DIRECTIONS

Capture of CO₂ from gas mixtures requires the molecular control offered by nanoscience to **tailor-make** those materials exhibiting **exactly the right** adsorption and diffusion selectivity to enable an **economic separation** process. Characterization methods and computational tools will be developed to guide and support this quest.

