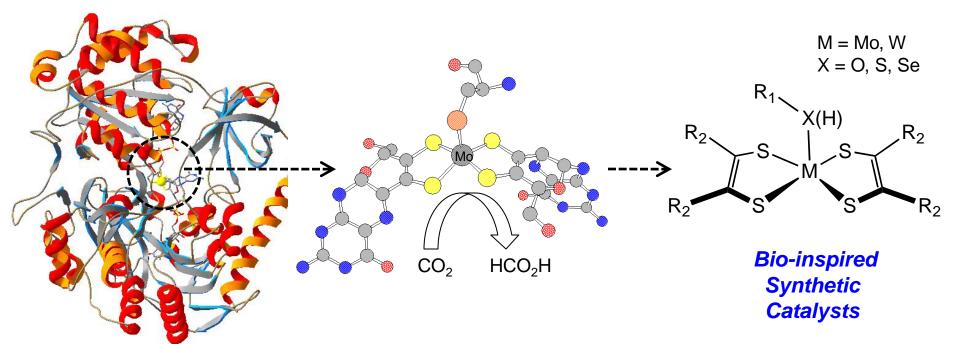
Bio-inspired Catalysts for CO₂ Reconversion

Approach: Apply the known enzyme structures & principles to build synthetic catalysts for CO₂ conversion

Example: Biomimetic catalysts for conversion of CO₂ to formic acid



Step 1

Find an enzyme of interest (e.g., formate dehydrogenase for CO₂ conversion)

Step 2

Focus on the reaction site and learn how the enzyme converts CO₂ to formic acid

Step 3

Synthesize catalysts that mimic the enzyme's CO₂ reduction chemistry