

Supplementary Materials

Table S1. Description of the synthesised SiNC adsorbent

SiNC	Description
STU	S – silica, T – toluene, U – non-calcined (Non - calcined SiNC with toluene as solvent)
STC	S – silica, T – toluene, C - calcined (Calcined SiNC with toluene as solvent)
SEEU	S – silica, EE – ethyl ether, U – non-calcined (Non-calcined SiNC with ethyl ether as solvent)
SEEC	S – silica, EE – ethyl ether, C – calcined (Calcined SiNC with ethyl ether as solvent)
SEU	S – silica, E – ethanol, U – non-calcined (Non-calcined SiNC with ethanol as solvent)
SEC	S – silica, E – ethanol, C - calcined (Non-calcined SiNC with ethanol as solvent)

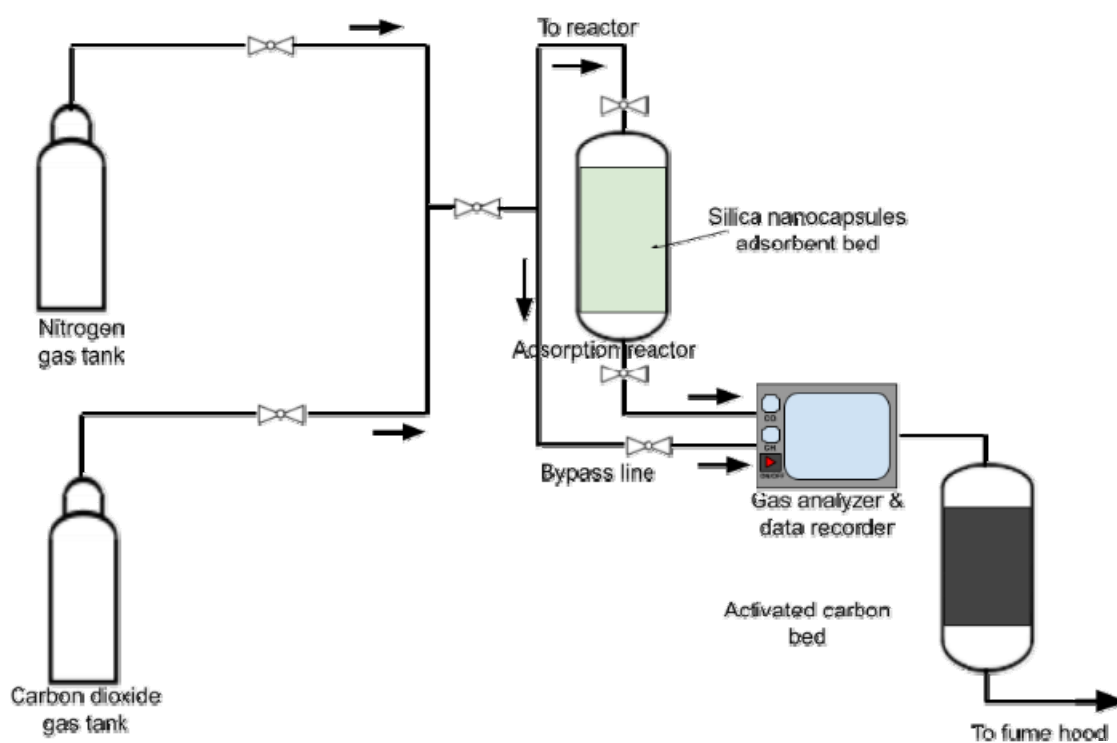


Fig. S1. Schematic diagram of the CO₂ adsorption rig.