

Table S4: Carbonation-calcination TGA cycle with regeneration in CO₂ and no reduction between cycles
(100CO₂)

Step	Flow	Gas composition	Temperature	Time/rate
Carbonation	500 ml/min	15/50/35 vol% CO ₂ /H ₂ O/N ₂	650°C	25min
Heating to regeneration temperature	500 ml/min	100 vol% CO ₂	650 to 925°C	9°C/min
Regeneration	500 ml/min	100 vol% CO ₂	925°C	6min
Cooling to carbonation temperature	500 ml/min	100 vol% N ₂	850 to 650°C	3.5°C/min