tatattatta, t ataa:

 CO_2 capture: C 2 1. / -G a t t а t t а а t t -G С а . C а а а t 2 C₂a t t а а а t a t t t а

/ -G 2. CO, reduction: t t C 2 t . D t a t a t ta ata t at, C а taat а а (HC H), (CH₂ H), -G t a а t t t tt a t t t а C 2 t.

Examples of speci c reactions and products obtained from CO2 conversion

```
t t F A : C _2 + 2 - + 2H + HC H
  a.
         t t t a : C _2 + 6 - + 6H + CH _3 H + H _2
                 a : C <sub>2</sub> + - + H + H
         t t H
                                              а
                  , t .)
(
    а
        ta, t
                                             t at a
         а
                   t
                           t
                                       a t
                     С,
         t
              t
                                                 / -
```

```
G t.
```

Characterization techniques for zno/r-Go composites

X-ray Di raction (XRD): Daa t t t tatt,a t,a ta t / ff a t G t.Baa t att , t ta a t а ta t а t 7.

Scanning electron microscopy (SEM) and transmission electron microscopy (TEM): E a E a t at a tt , a t t a a t а -G t t t . t а -G , ta t a t а t t t taaa t. t

Fourier transform infrared spectroscopy (FTIR): F I a a t tatt а а t a / -G t.Ita t t t a t а а а -G . a tat t а

X-ray photoelectron spectroscopy (XPS): t t ta a a t t, a tat , a а / -G t.It t at а t tat at t t,t t,a t t t at t а t ta

Performance evaluation methods for $\mathrm{co}_{_2}$ capture and conversion

Photocatalytic activity measurement: t t a a t

at a ta ta

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