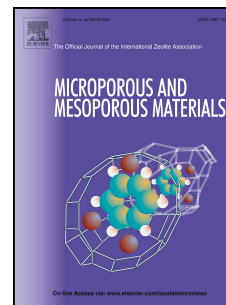


# Accepted Manuscript

Enhanced activity of CO<sub>2</sub> hydrogenation to CH<sub>4</sub> over Ni based zeolites through the optimization of the Si/Al ratio

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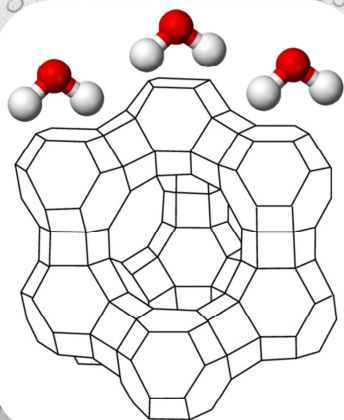
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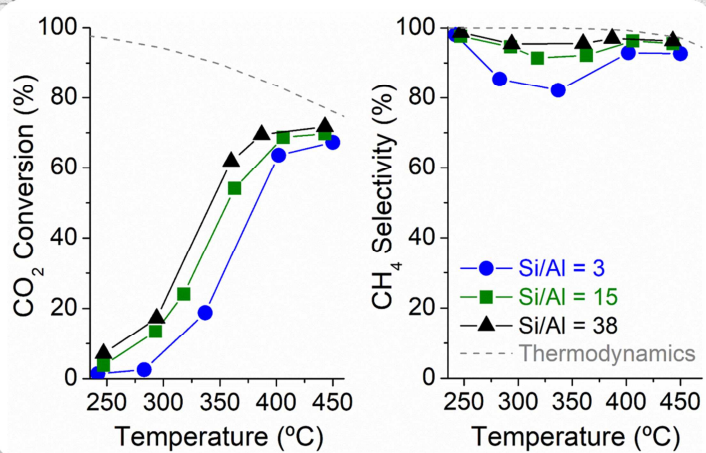
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⇒  $\uparrow$  Si/Al ratio  
↓ Affinity to **water**



⇒ Lower **inhibitory effect of water** on the reaction mechanism



✓ Higher catalytic performances achieved

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