

Supporting information

Title: *e*-Methanation with a spiral catalyst: optimized thermal management and long-term stability

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Figure S-1 Adsorption-Desorption Isotherms of as-prepared spiral-type Ru/CeO₂ catalyst.

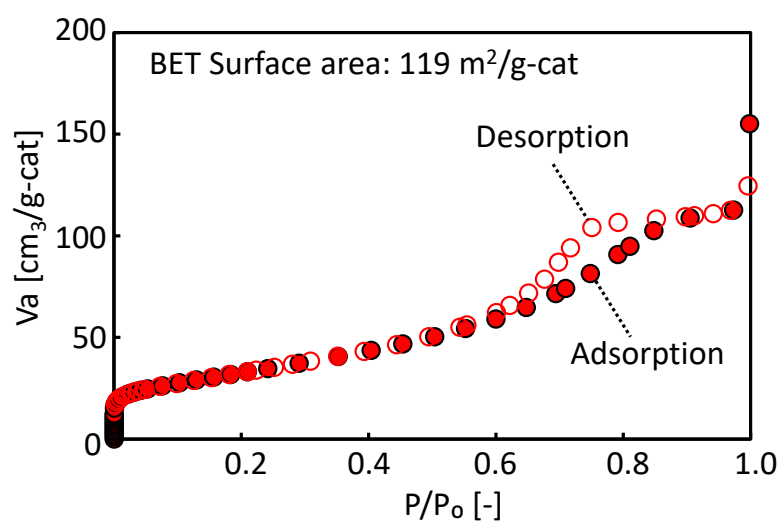


Figure S-2 Effect of twist angle differences in spiral-shaped catalysts on reaction field temperature distribution evaluated by IR thermal imaging.

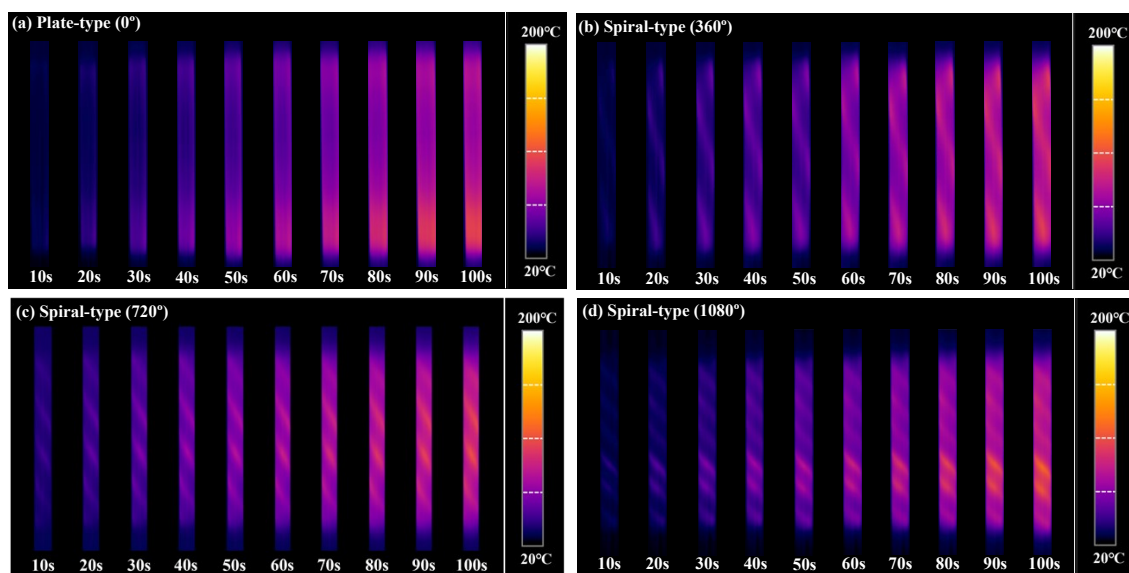


Figure S-3 XRD patterns of spiral-type structured Ru/CeO₂ catalyst before and after reaction.

