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Title: Fluidizable Ni/La₂O₃-γAl₂O₃ Catalyst for Steam

Gasification of a Cellulosic Biomass Surrogate

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Highlights

- A new fluidizable Ni catalyst supported on La₂O₃ modified γ-Al₂O₃
- > La₂O₃ promotes both γ-Al₂O₃ stability and nickel enhanced properties
- Catalytic biomass gasification is developed in a fluidized bed CREC Riser Simulator
- > Catalyst displays improved reactivity and close to equilibrium gasification
- > Observed catalyst reactivity is in line with its enhanced structural properties

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