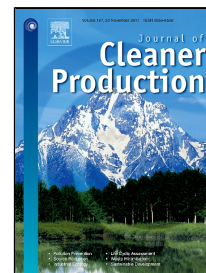


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Autothermal reforming of model purified biogas using an extruded honeycomb monolith: A new catalyst based on nickel incorporated Illite clay promoted with MgO



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New catalytic formulation based on nickel incorporated Illite clay promoted with MgO

The catalyst was easily extruded as honeycomb monolith without binders

The catalyst formulation and reduction conditions allows smaller particles formation

The formation of NiO-MgO solid solution prevents agglomeration and sintering

MgO enhances basic site density needed for CO_2 activation and CH_4 catalytic reforming

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