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Authors: D. Torres, J.L. Pinilla, I. Suelves

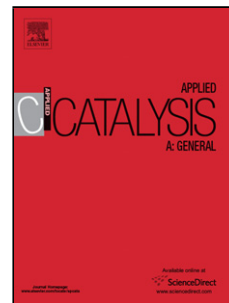
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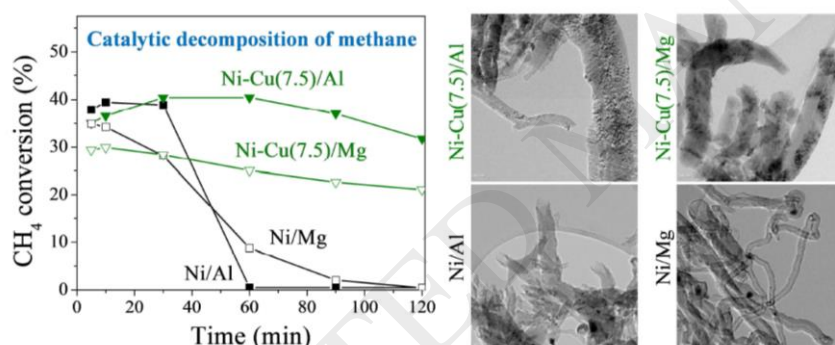
## Screening of Ni-Cu bimetallic catalysts for hydrogen and carbon nanofilaments production via catalytic decomposition of methane

D. Torres, J.L. Pinilla\*, I. Suelves

Instituto de Carboquímica, ICB-CSIC, Miguel Luesma Castán, 4, 50018 Zaragoza, Spain

\* Corresponding author: e-mail address: [jlpinilla@icb.csic.es](mailto:jlpinilla@icb.csic.es) (José Luis Pinilla))

### Graphical abstract



### Highlights

- A thermogravimetric-based catalysts screening according to their carbon production in the catalytic methane reaction decomposition is presented.
- The effect of Cu doping in Ni/MgO and Ni/Al<sub>2</sub>O<sub>3</sub> catalysts on their catalytic stability and activity in the CDM for both hydrogen and high added-value CNF production is studied.

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