

## Accepted Manuscript

Title: Promotion effect of zirconia on Mg(Ni,Al)O mixed oxides derived from hydrotalcites in CO<sub>2</sub> methane reforming

Authors: Radosław Dębek, Monika Motak, Maria Elena Galvez, Teresa Grzybek, Patrick Da Costa



PII: S0926-3373(17)30568-4  
DOI: <http://dx.doi.org/doi:10.1016/j.apcatb.2017.06.024>  
Reference: APCATB 15764

To appear in: *Applied Catalysis B: Environmental*

Received date: 28-11-2016  
Revised date: 3-3-2017  
Accepted date: 8-6-2017

Please cite this article as: Radosław Dębek, Monika Motak, Maria Elena Galvez, Teresa Grzybek, Patrick Da Costa, Promotion effect of zirconia on Mg(Ni,Al)O mixed oxides derived from hydrotalcites in CO<sub>2</sub> methane reforming, Applied Catalysis B, Environmental <http://dx.doi.org/10.1016/j.apcatb.2017.06.024>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Promotion effect of zirconia on Mg(Ni,Al)O mixed oxides derived from hydrotalcites in CO<sub>2</sub> methane reforming**

Radosław Dębek<sup>\*a,b</sup>, Monika Motak<sup>a</sup>, Maria Elena Galvez<sup>b</sup>, Teresa Grzybek<sup>a</sup>, Patrick Da Costa<sup>b</sup>

<sup>a</sup>AGH University of Science and Technology, Faculty of Energy and Fuels, Department of Fuels Technology,  
al.A. Mickiewicza 30, 30-059, Kraków, Poland

<sup>b</sup>Sorbonne Universites, UPMC, Univ. Paris 6, CNRS, UMR 7190, Institut Jean Le Rond d'Alembert,  
2 Place de la Gare de Ceinture, 78210 Saint-Cyr-L'Ecole, France

**Highlights**

- Hydrotalcite-derived catalysts promoted with Zr species were tested in DRM
- Various Zr loadings resulted in formation of different Zr-containing phases
- Zr loading influenced catalysts physicochemical and catalytic properties
- Zr promotion resulted in increased resistance to coking

---

\* Corresponding author:

Radosław Dębek, [debek@agh.edu.pl](mailto:debek@agh.edu.pl), [raddebek@gmail.com](mailto:raddebek@gmail.com),  
AGH University of Science and Technology, Faculty of Energy and Fuels  
30 A.Mickiewicza Avenue  
30-059 Kraków, Poland

Download English Version:

<https://daneshyari.com/en/article/6498825>

Download Persian Version:

<https://daneshyari.com/article/6498825>

[Daneshyari.com](https://daneshyari.com)