

## Accepted Manuscript

Title: Hybrid silica based catalysts prepared by the encapsulation of zirconocene compound via non-hydrolytic sol-gel method for ethylene polymerization

Authors: Larissa Brentano Capeletti, Maria do Carmo Martins Alves, Mateus Borba Cardoso, João Henrique Zimnoch dos Santos



PII: S0926-860X(18)30123-6  
DOI: <https://doi.org/10.1016/j.apcata.2018.03.013>  
Reference: APCATA 16587

To appear in: *Applied Catalysis A: General*

Received date: 30-5-2017  
Revised date: 7-3-2018  
Accepted date: 15-3-2018

Please cite this article as: Capeletti LB, do Carmo Martins Alves M, Cardoso MB, dos Santos JHZ, Hybrid silica based catalysts prepared by the encapsulation of zirconocene compound via non-hydrolytic sol-gel method for ethylene polymerization, *Applied Catalysis A, General* (2010), <https://doi.org/10.1016/j.apcata.2018.03.013>

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.

# Hybrid silica based catalysts prepared by the encapsulation of zirconocene compound via non-hydrolytic sol-gel method for ethylene polymerization

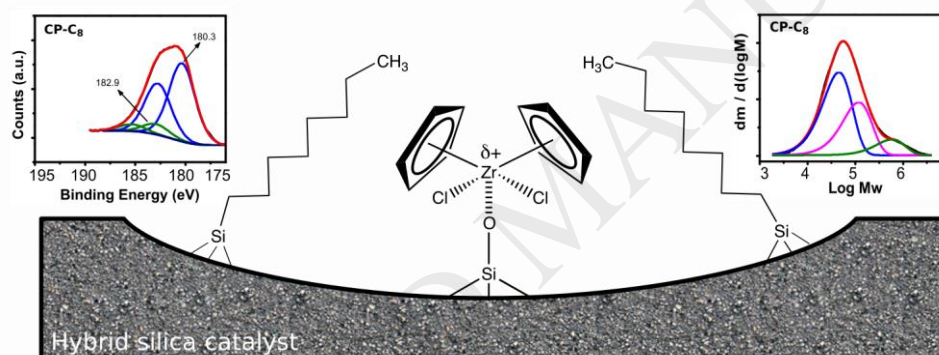
Larissa Brentano Capeletti<sup>1</sup>, Maria do Carmo Martins Alves<sup>1</sup>, Mateus Borba Cardoso<sup>2</sup>, João Henrique Zimnoch dos Santos<sup>1†</sup>

<sup>1</sup> Instituto de Química, Universidade Federal do Rio Grande do Sul (UFRGS), CEP 91501-970, Porto Alegre, RS, Brazil

<sup>2</sup> Laboratório Nacional de Luz Síncrotron (LNLS) / Laboratório Nacional de Nanotecnologia (LNNano), Centro Nacional de Pesquisa em Energia e Materiais (CNPEM), CEP 13083-970, Caixa Postal 6192, Campinas, SP, Brazil

<sup>†</sup> **Corresponding author:** João Henrique Zimnoch dos Santos; Tel +55 51 3308 7238; E-mail: jhzds@iq.ufrgs.br

Graphical abstract



Highlights

- Hybrid silica catalysts for ethylene polymerization were prepared by non-hydrolytic sol-gel method.
- Polymerization activity increases with the addition of organic groups to the support.
- The nature of the organic groups of the support showed to affect polymers characteristics.
- Possibility of product characteristics tuning depending on the organic groups employed.

**ABSTRACT**

Download English Version:

<https://daneshyari.com/en/article/6496680>

Download Persian Version:

<https://daneshyari.com/article/6496680>

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