

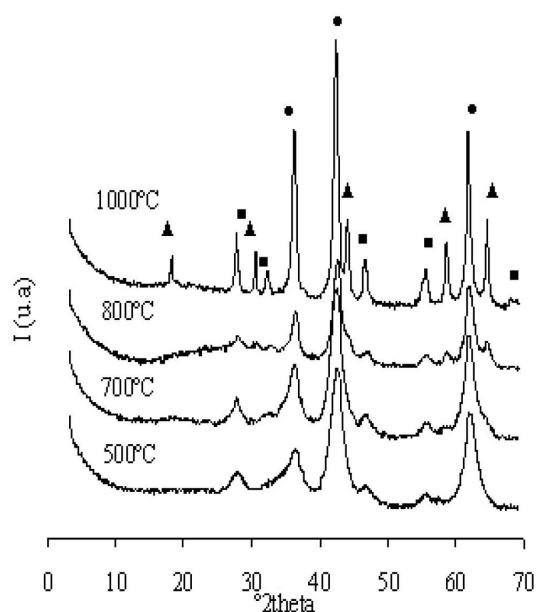
## Ce – PROMOTED CATALYST FROM HYDROTALCITES FOR CO<sub>2</sub> REFORMING OF METHANE: CALCINATION TEMPERATURE EFFECT

**Carlos Enrique Daza**

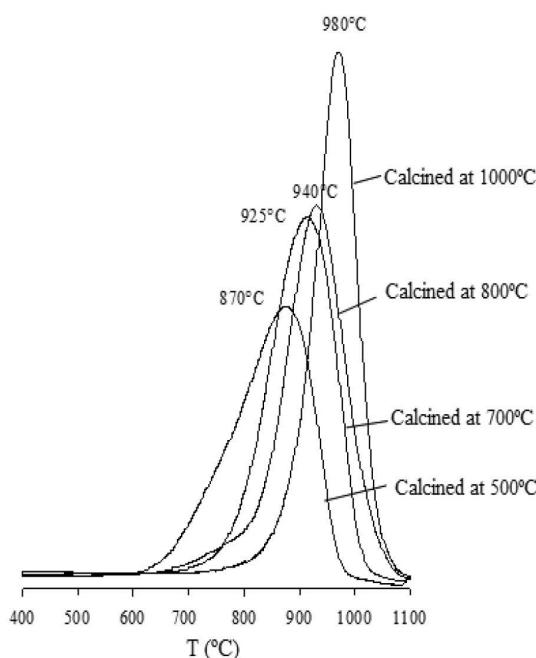
Departamento de Química, Facultad de Ciencias, Pontificia Universidad Javeriana, Calle 40 n° 5-50, Carrera 7 n° 43-82, Bogotá, D.C., Colombia

**Sonia Moreno and Rafael Molina\***

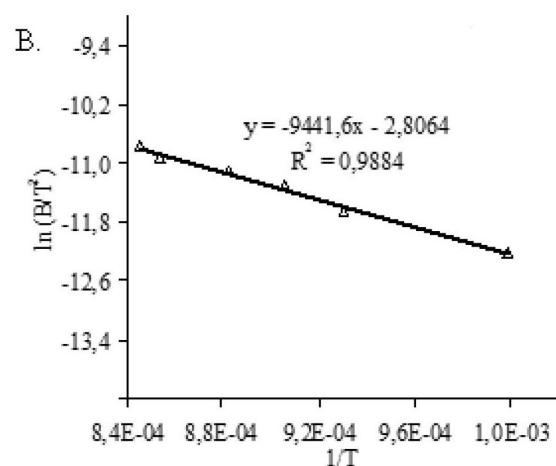
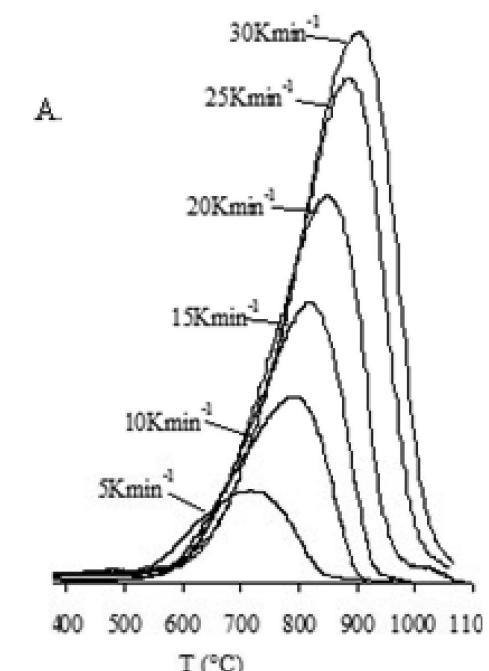
Departamento de Química, Facultad de Ciencias, Universidad Nacional de Colombia, Av. K. 30 45-03, Bogotá, D.C., Colombia



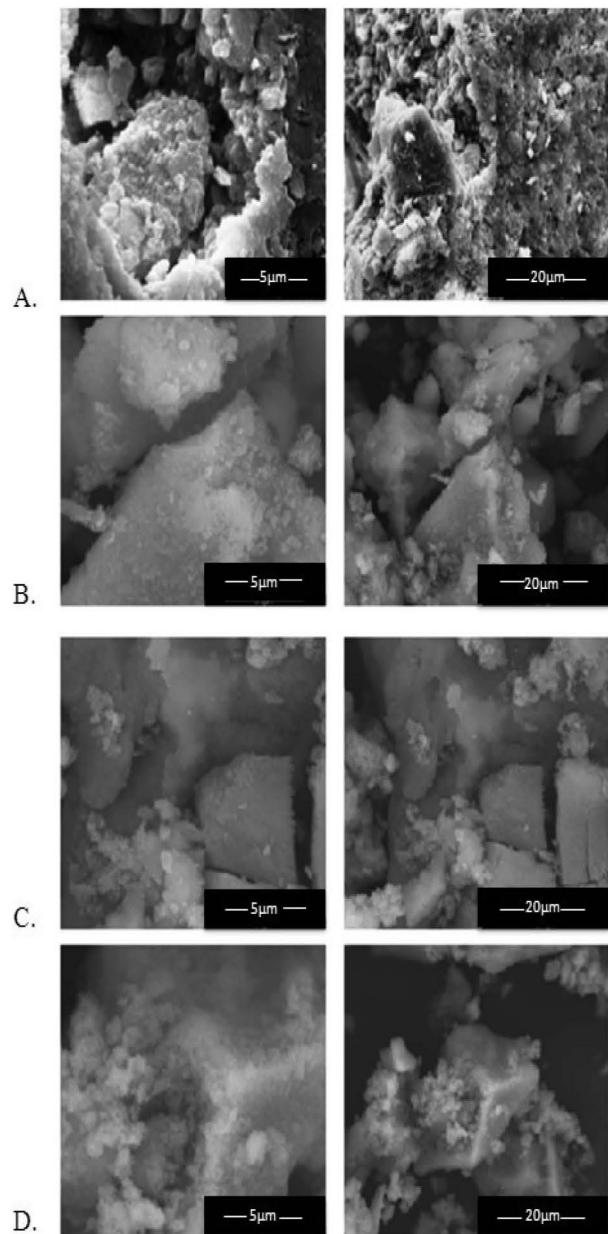
**Figure 1S.** XRD for the oxides calcined at several temperatures. ▲ Spinel-like, ● Periclase-like, ■ CeO<sub>2</sub>



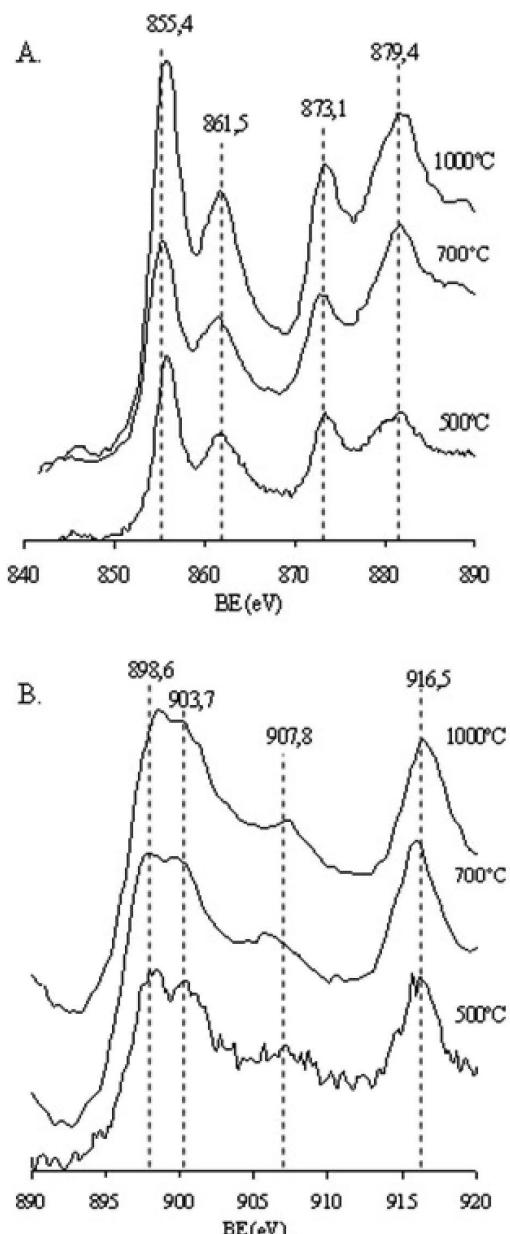
**Figure 2S.** H<sub>2</sub>-TPR for the oxides calcined at several temperatures



**Figure 3S.** Determination of reduction activation energy for the catalyst calcined at 500 °C. A: Profiles at different rates of heating, B: Plot of ln(B/T<sup>2</sup>) vs. 1/T



**Figure 4S.** SEM for the oxides calcined at several temperatures, A) 500, B) 700, C) 800 and D) 1000 °C



**Figure 5S.** XPS spectra for the oxides calcined at different temperatures. A: Ni<sub>2p</sub> zone. B: Ce<sub>3d</sub> zone