

Activated layered double hydroxides: assessing the surface anion basicity and its connection with the catalytic activity in the cyanoethylation of alcohols.

Guadalupe Castro-González¹, Jaime S. Valente², Marcelo Galván¹ and Joel Ireta¹.

¹Universidad Autónoma Metropolitana-Iztapalapa, departamento de Química, CP 09340, Ciudad de México, México.

²Instituto Mexicano del Petróleo, CP 07730, Ciudad de México, México.

Supporting Information

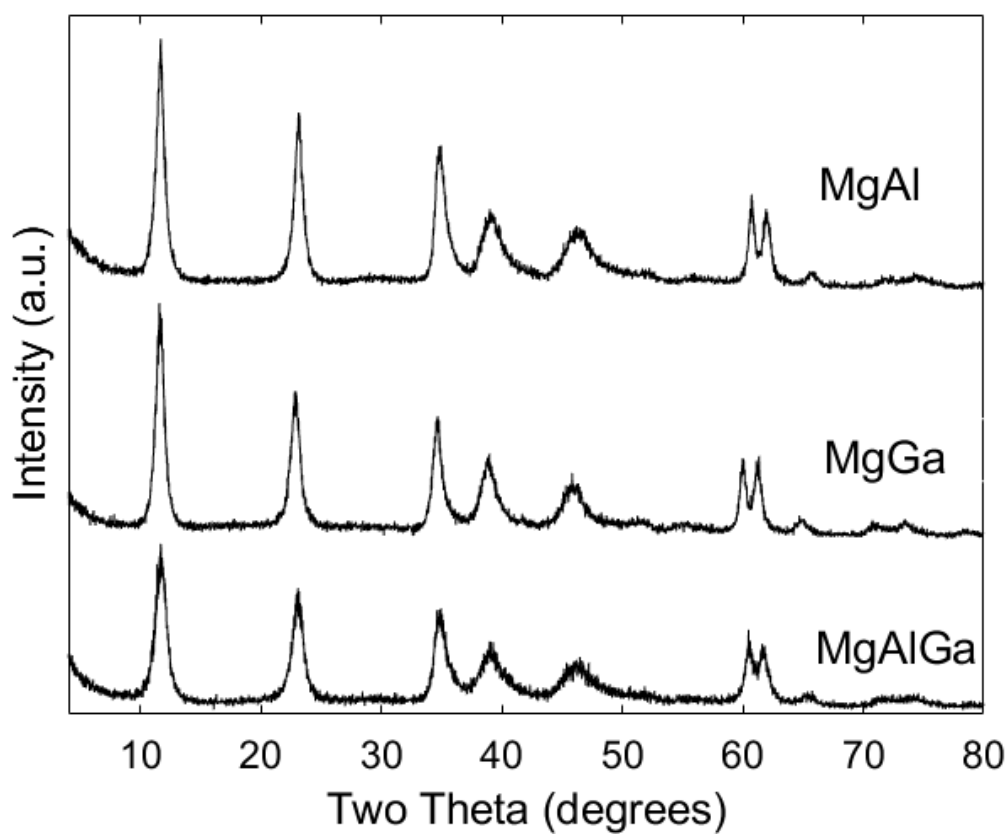


Figure 1S. X-ray diffraction patterns of as-synthesized LDHs

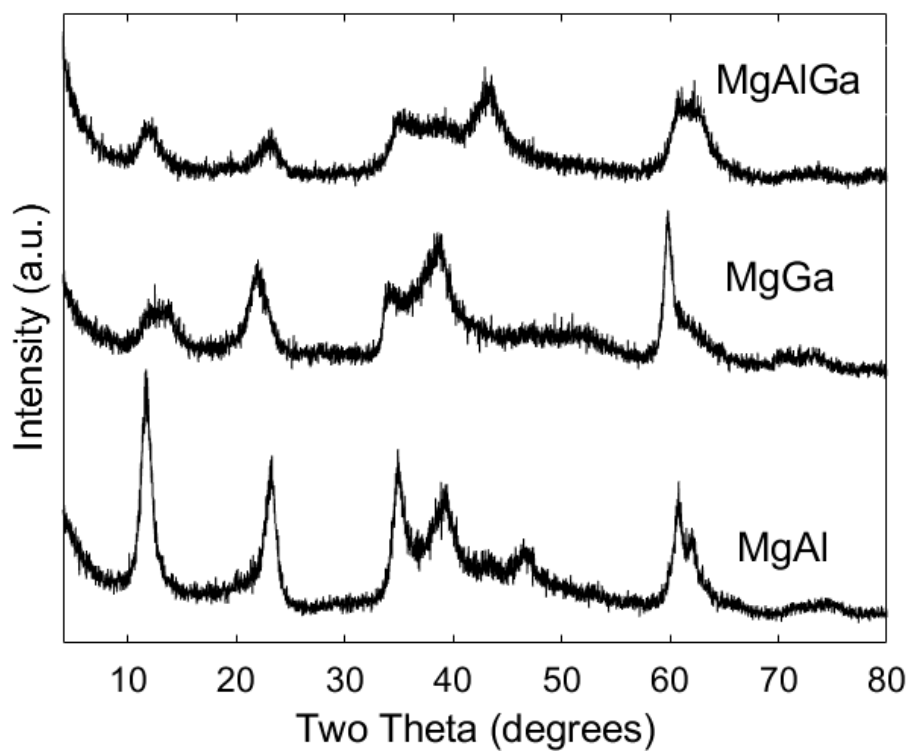


Figure 2S. X-ray diffraction patterns of rehydrated LDH catalysts

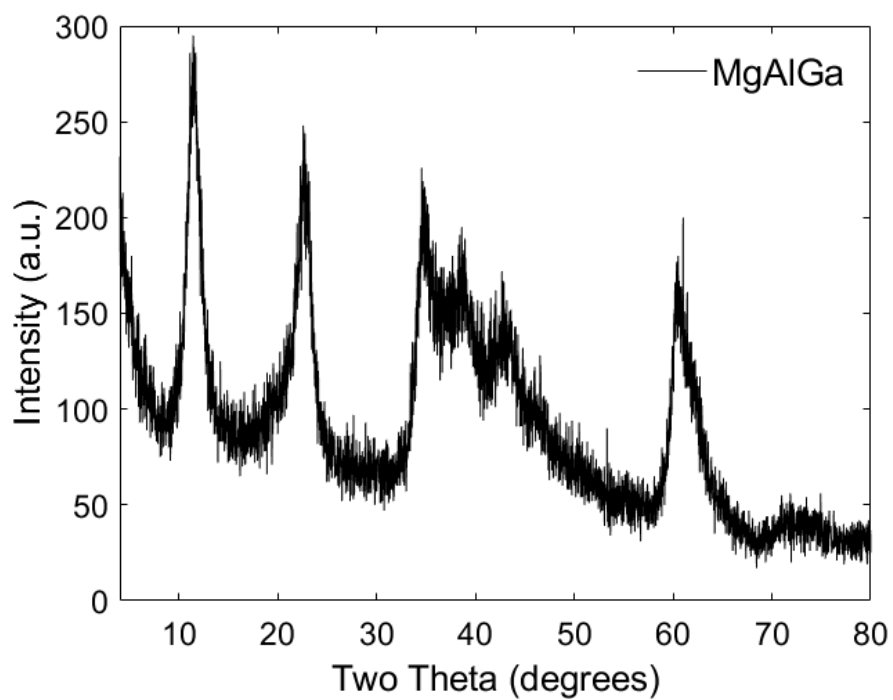


Figure 3S. X-ray diffraction patterns of MgAlGa after the reaction

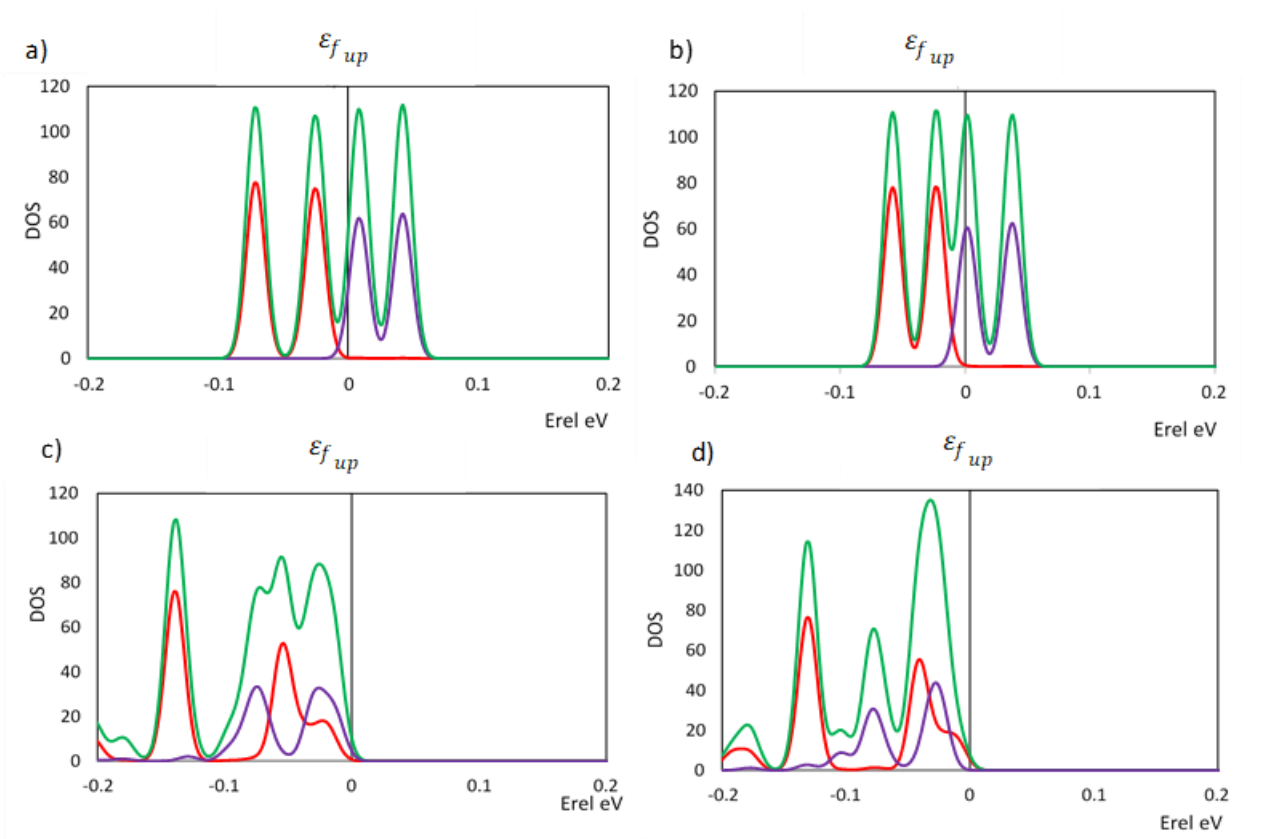


Figure 4S. Plots of DOS for a) MgAl- OH_{surf}/OH^- , b) MgGa- OH_{surf}/OH^- , c) ZnAl- OH_{surf}/OH^- , d) ZnGa- OH_{surf}/OH^- . Total DOS is shown in the green line, DOS_{up} for up-surface in red, and pDOS for OH_{inf}^- in purple.