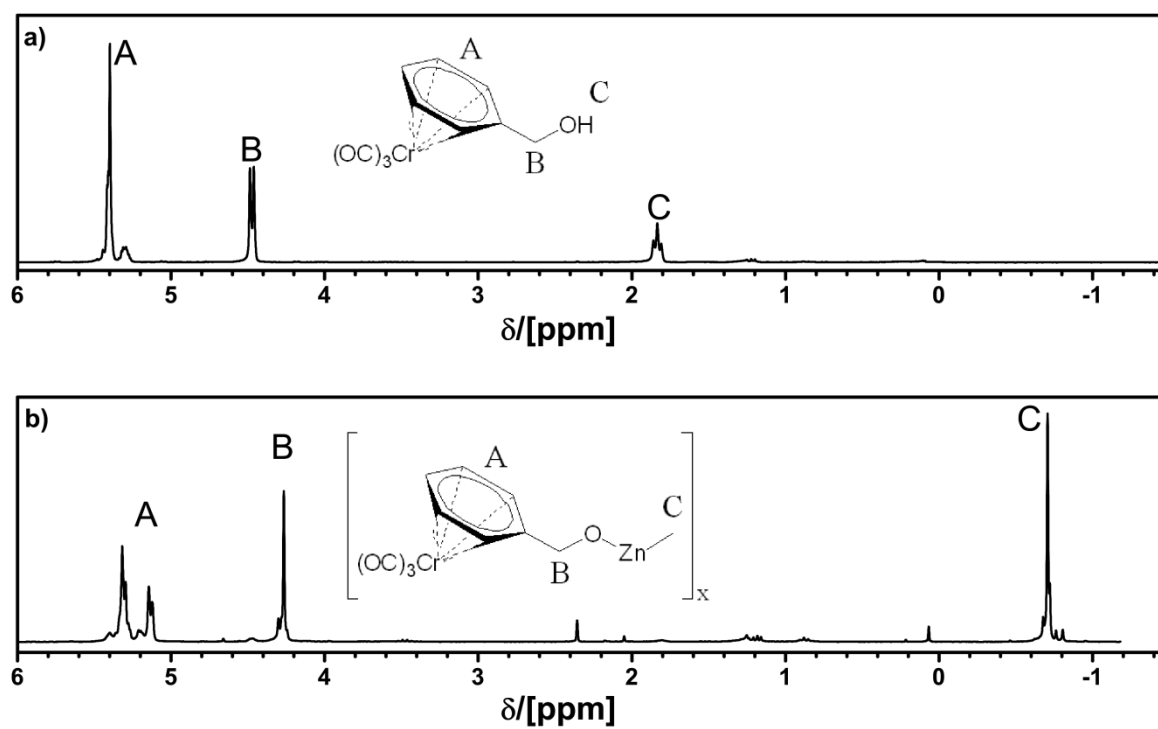


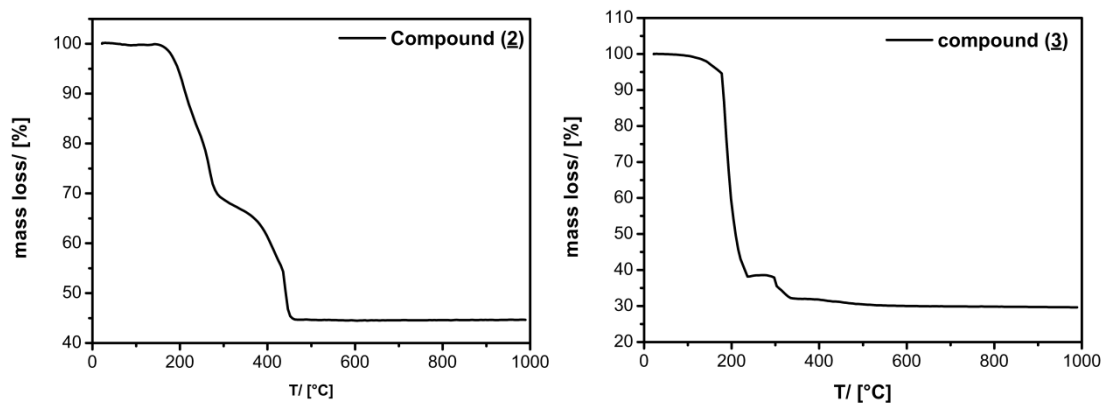
SUPPORTING INFORMATION

SI-1: Further analytical data for compound $[\text{MeZnOCH}_2\text{PhCr}(\text{CO})_3]_4$ (**4**):

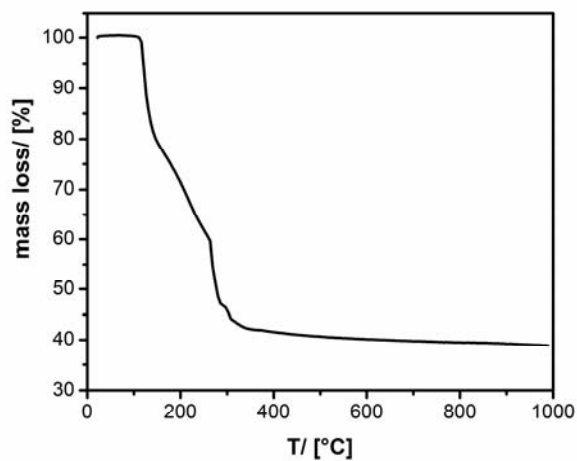
^1H -NMR in comparison to the starting compound (**3**):



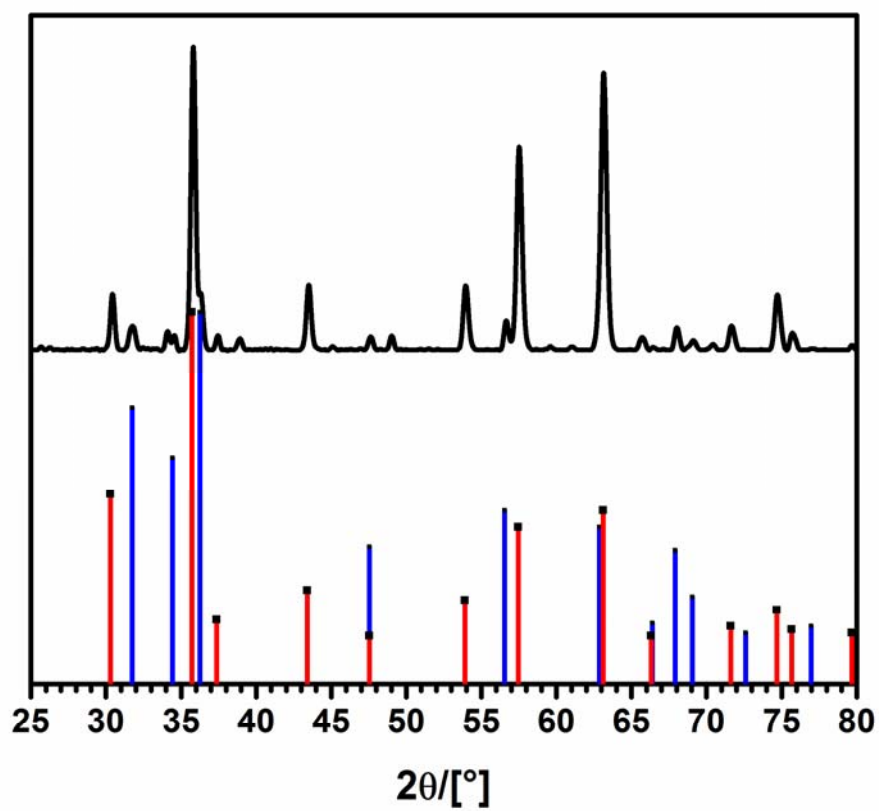
SI-2: TGA data of compounds (2), (3)



and (6).



SI-3: PXRD pattern of the final product of the thermal decomposition of precursor (**4**).

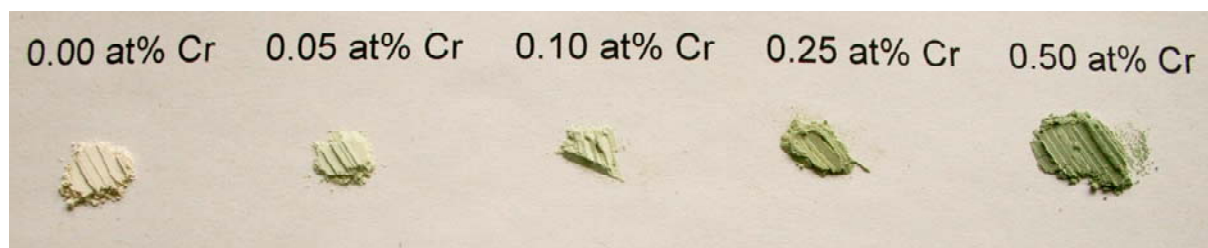


Black line: Experimental pattern.

Blue bars: Pattern of ZnO as a reference.

Red bars: Pattern of ZnCr_2O_4 as a reference.

SI-4: Photographic images of the Chromium-doped ZnO materials.



SI-5: n-type doping of ZnO due to Cr^{III} centers.

