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Additional Information

# ***SUPPORTING INFORMATION***

Surface functionalization of  $\text{Fe}_{0.7}\text{Cr}_{1.3}\text{O}_3/8\text{YSZ}$   
electrode for selective potentiometric sensing of  
 $\text{C}_2\text{H}_4$

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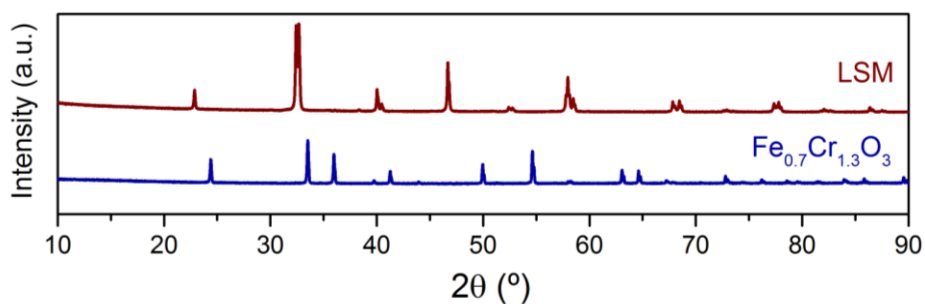


Figure SI 1 X-ray diffraction pattern of both LSM and  $\text{Fe}_{0.7}\text{Cr}_{1.3}\text{O}_3$  powders at room temperature

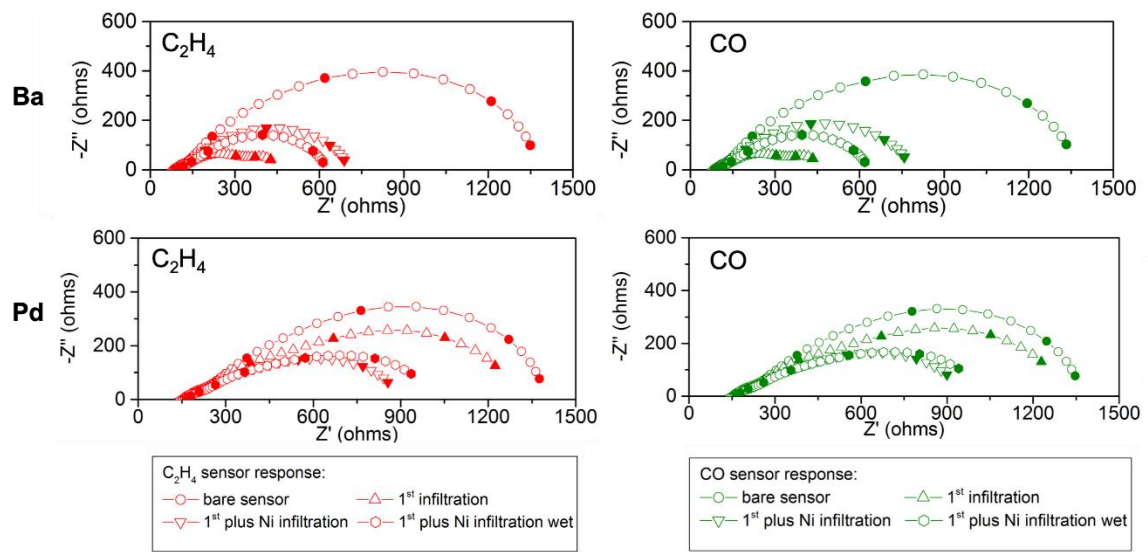


Figure SI 2.- EIS results for the devices infiltrated with Ba and Pd for the bare sensor (dots), first infiltration (triangle), additional infiltration with nickel in dry conditions (inverse triangle) and additional infiltration with nickel in wet conditions (hexagon).  $C_2H_4$  response is depicted in red in the left side and CO response is shown in green in the right side