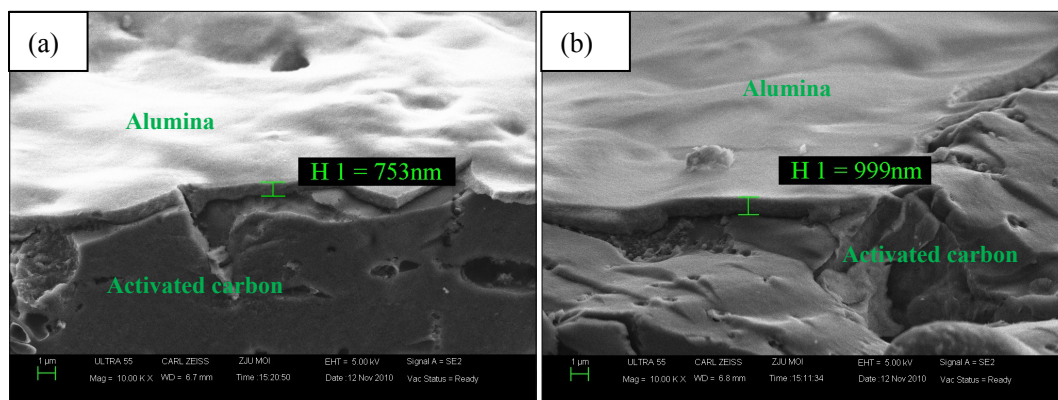


## Alumina membrane coated activated carbon: A novel strategy to enhance mechanical properties of solid catalyst

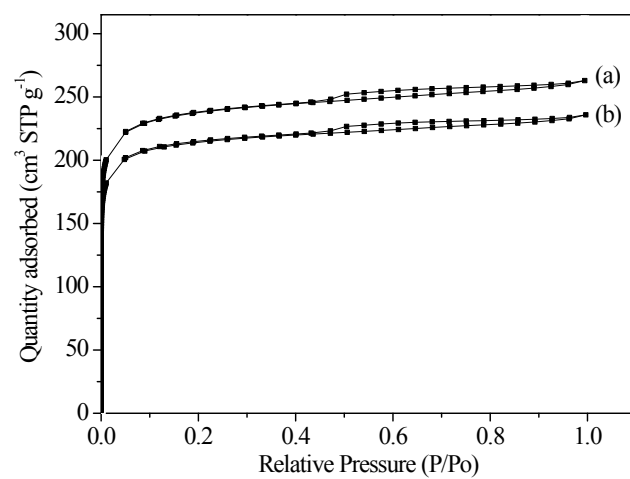
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**Figure S1.** SEM images of alumina membrane coated activated carbon (a) two-time coating, (b) three-time coating



**Figure S2.** N<sub>2</sub> adsorption isotherms of the samples (a) two-time coating, (b) three-time coating