## **Supplementary Data**



Image acquired at 45° in order to show the membrane surface and cross-section

Figure S1: Illustrative scheme of the structure of the cross-section of the polymeric precursor of c-CMSM.



**Figure S2:** SEM images of the polymeric precursor prepared with 0.1 wt.% boehmite nanoparticles with different magnifications. In these two images, it is possible to observe an internal lamellar structure and on the surface of the precursor a denser structure.