

Fig. S1: TEM image of Al/SiO<sub>2</sub>.

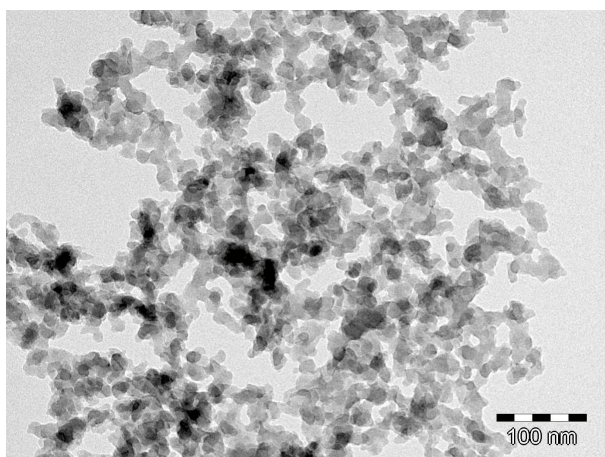


Fig. S2: TEM image of SiO<sub>2</sub>.

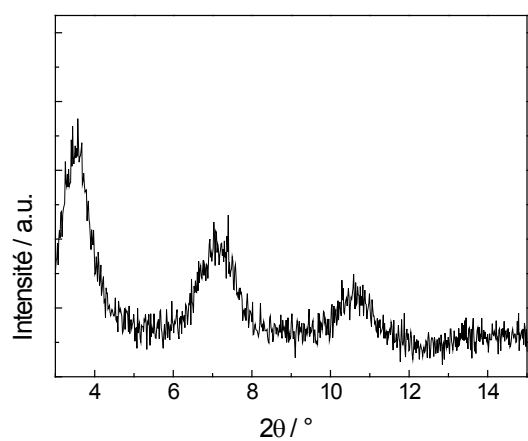


Fig. S3: Powder XRD pattern of the sample AS10 (23.8 OPA/nm<sup>2</sup>).