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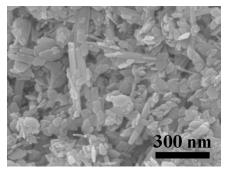


Fig.S1 SEM images for the MnO<sub>2</sub> nanoparticles

Nanostructure of  $MnO_2$  is clearly shown with SEM images in Fig.S1. As can be seen from the pictures, the particles have different shapes, the mostly was with the size about 30-300 nm.