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## **Supplementary Materials**



Fig.S1 EDS of Ni-V<sub>2</sub>O<sub>5</sub> microspheres.



Fig.S2 The corresponding elemental mapping of  $\mathrm{O}\left(a\right),$  V (b) and Ni (c).



Fig.S3 SEM images of  $V_2O_5$  samples.



Fig. S4  $N_2$  adsorption/desorption isotherm and corresponding BJH pore-size distribution curves of  $Ni\text{-}V_2O_5$ 



Fig. S5 The first three consecutive CVs of the Ni-V<sub>2</sub>O<sub>5</sub> hollow microspheres at a scan rate of 0.2 mV s<sup>-1</sup>.