

## **Supporting Information**

### **Rational design of porous $\text{Ce}_x\text{Nb}_{1-x}$ oxide hollow nanosphere as novel $\text{NH}_3$ -SCR catalyst**

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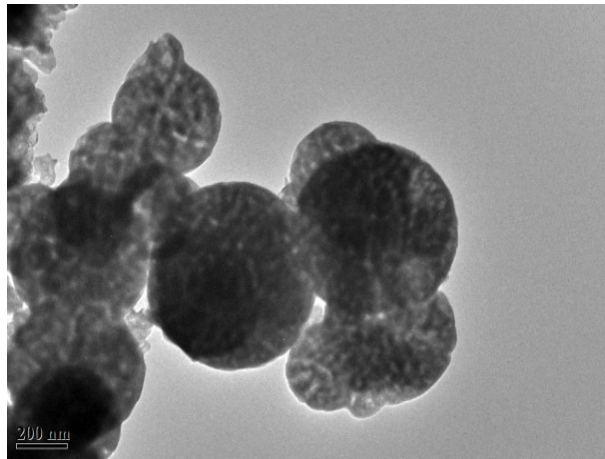


Fig. S1. TEM image of Nb<sub>2</sub>O<sub>5</sub>.

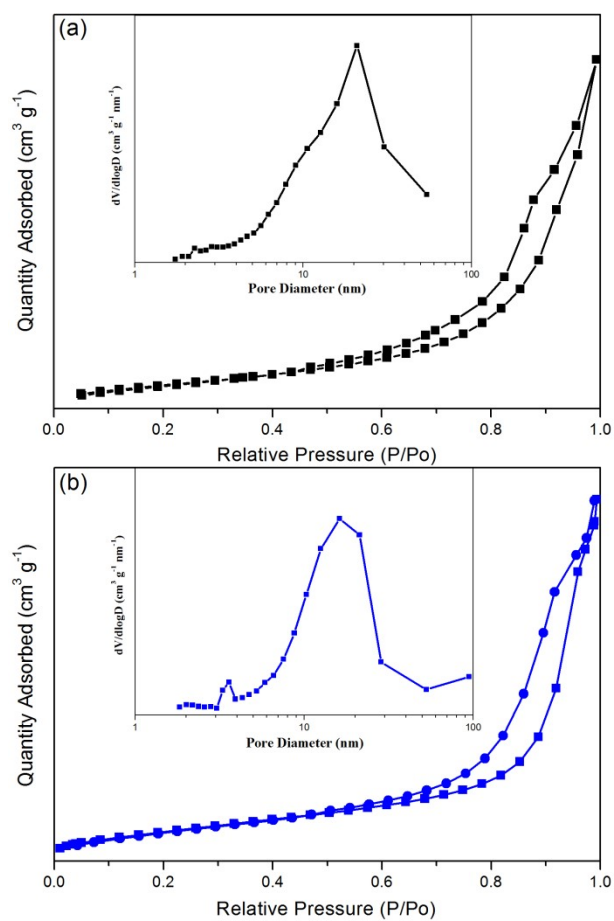


Fig. S2.  $N_2$  sorption isotherms and pore size distributions (inset) of the obtained (a)  $Ce_{0.4}Nb_{0.6}$  and (b)  $Nb_2O_5$  catalysts.