

**Electronic Supplementary Material (ESI) for RSC Advances**

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## **Supporting Information**

**One-step hydrothermal preparation of Ce-doped MoO<sub>3</sub>  
nanobelts with enhanced gas sensing properties**

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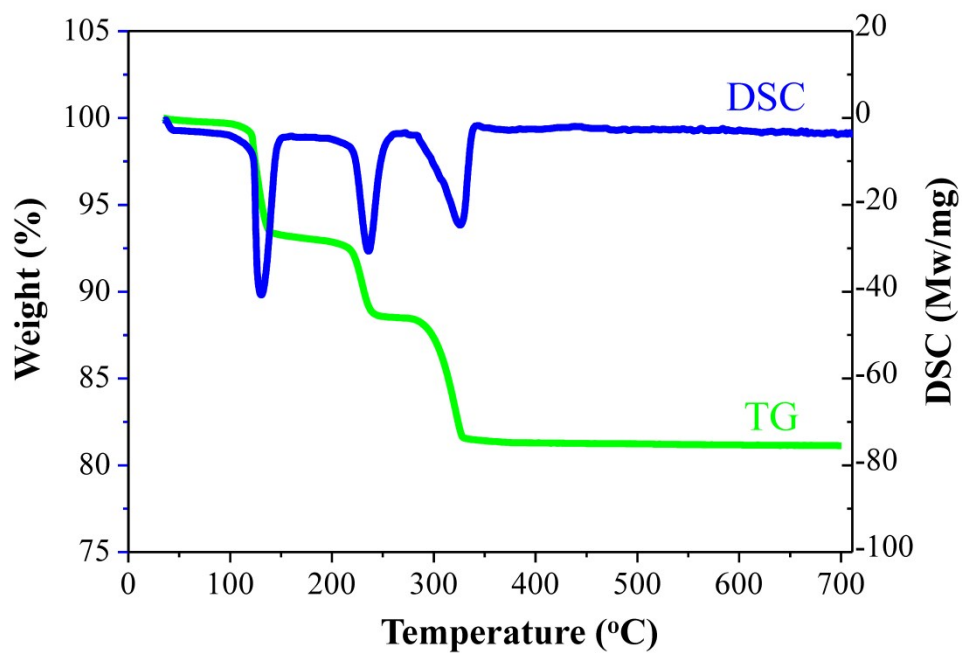


Fig. S1 TG-DSC curves of the conversion of  $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}$ .

The conversion of  $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}$  during annealing treatment was investigated by Thermogravimetric (TG) and differential scanning calorimetric (DSC) at a program-controlled temperature elevation rate of  $10\text{ }^\circ\text{C min}^{-1}$  in air. As shown in Fig. S1,  $\text{MoO}_3$  powders can be obtained by calcining  $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}$  when the temperature is over  $350\text{ }^\circ\text{C}$ .