

## Supporting Information

### The loss of ZnO as the support for metal catalysts by H<sub>2</sub> reduction

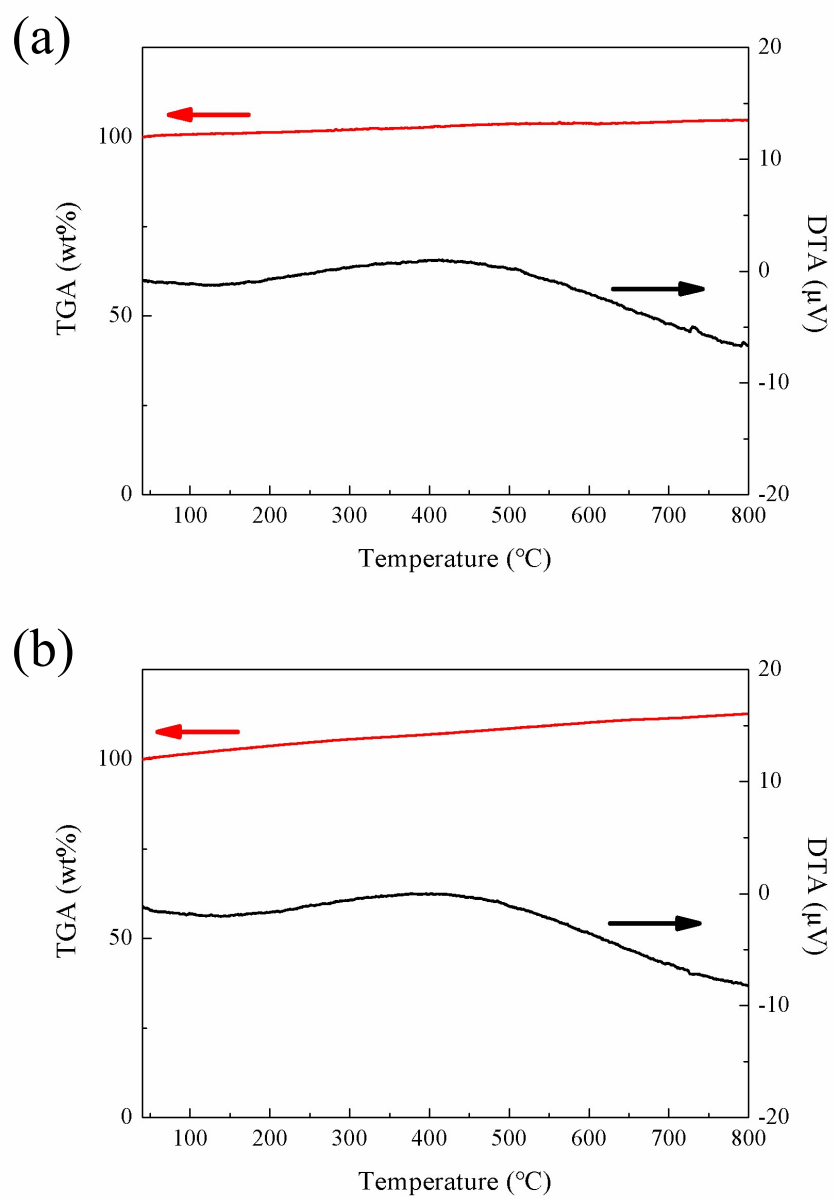
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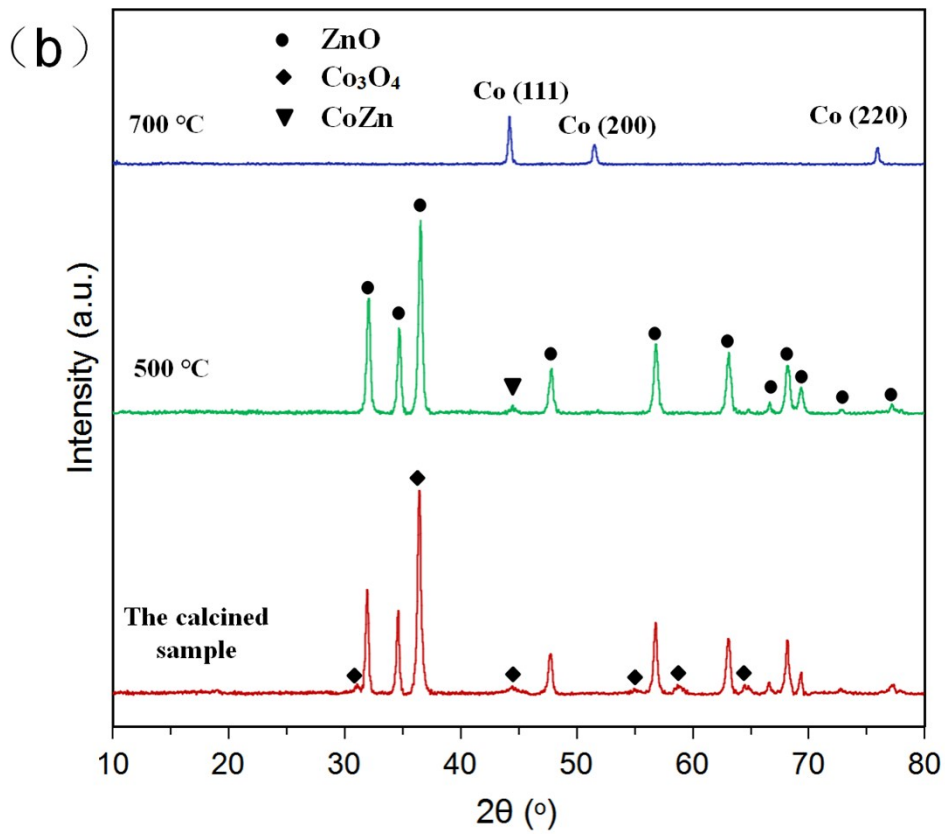
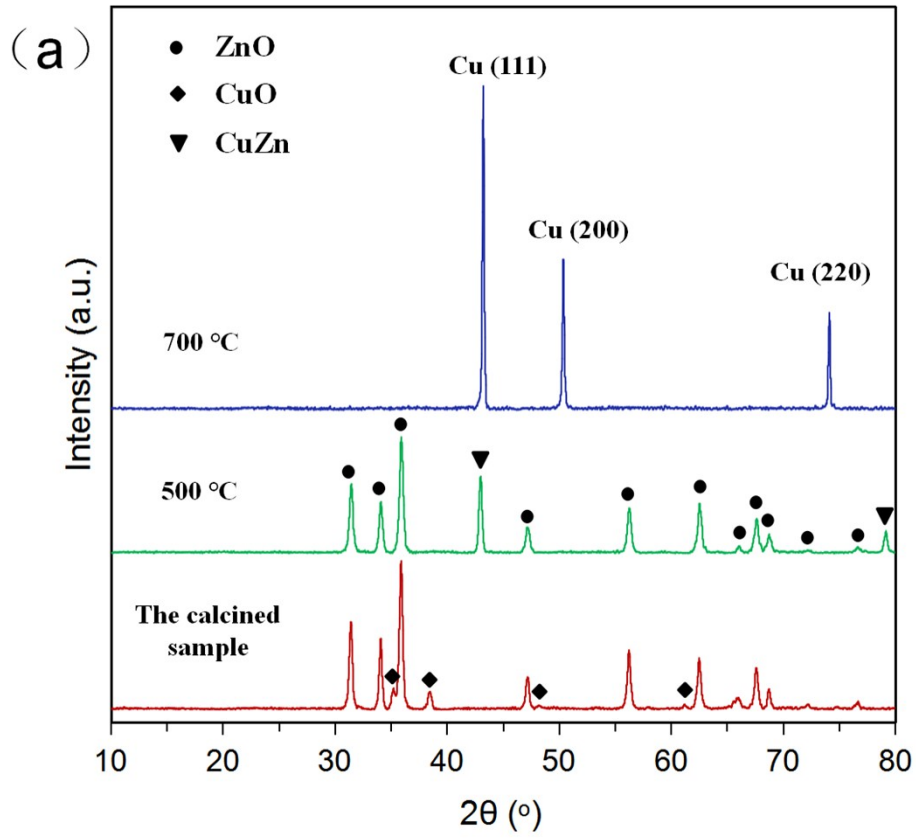
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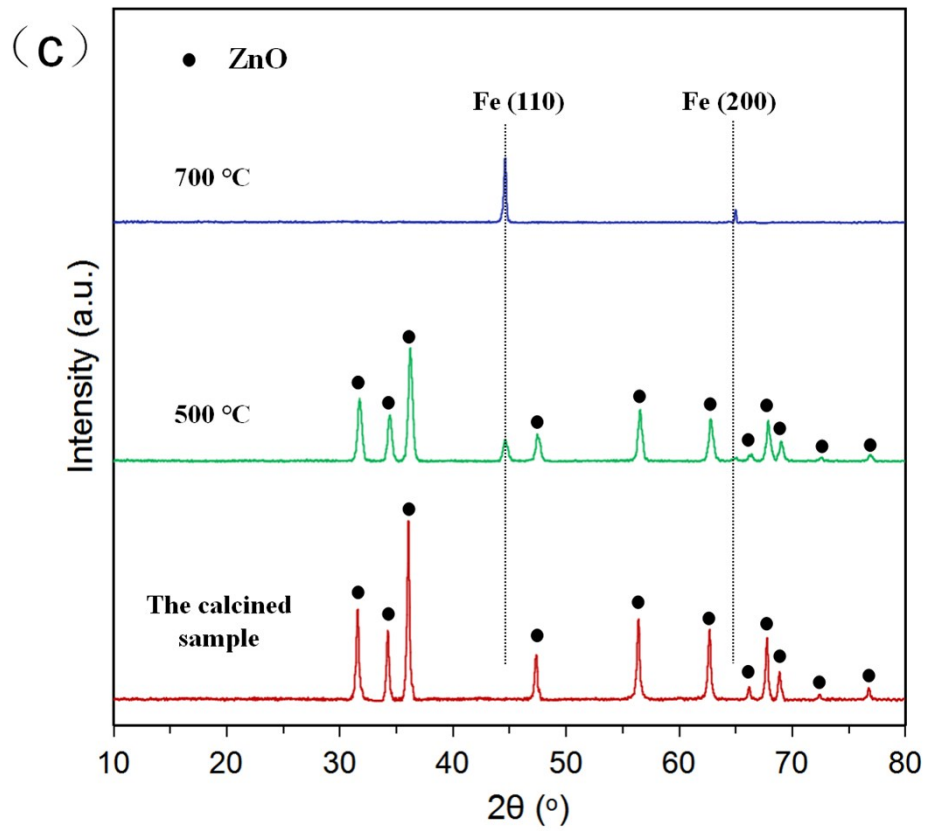
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## Figures



**Fig. S1** TG-DTA profiles of ZnO (a) in air and (b) in  $\text{N}_2$ .





**Fig. S2** XRD patterns of the calcined sample and the reduced samples for (a) Cu/ZnO, (b) Co/ZnO and (c) Fe/ZnO.