

Electronic Supplementary Information (ESI)

Beneficial effects of stoichiometry and nanostructure for $\text{LiBH}_4\text{-MgH}_2$ hydrogen storage system

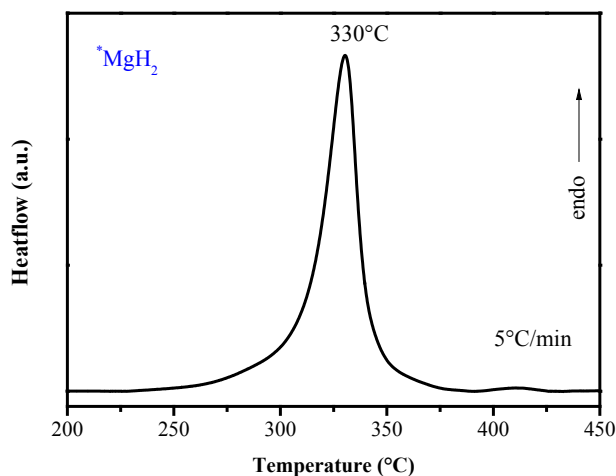
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Figure 1s DSC curve of ^{*}MgH₂



The peak temperature of ^{*}MgH₂ was 330°C, whereas those of Nb₂O₅ doped MgH₂ or MgD₂ were about 200°C in Ref. 22, by 130°C lower. However, Nb₂O₅ doped MgH₂ or MgD₂ lost its reactivity in the composite with LiBH₄, while the reactivity of ^{*}MgH₂ remained.

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Figure 2s XRD profiles of as-milled samples from $x=0.2 - 2.0$

