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Electronic Supplementary Information

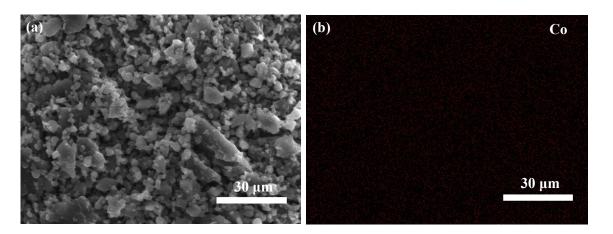


Fig. S1 EDS mapping of the as-prepared LiBH₄-2LiNH₂-5 wt% Co@C sample.

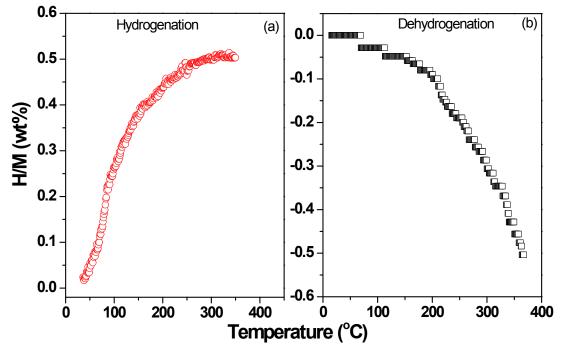


Fig. S2 Hydrogenation (a) and dehydrogenation (b) curves of the LiBH₄-2LiNH₂-5 wt% Co@C sample at 3rd cycle.

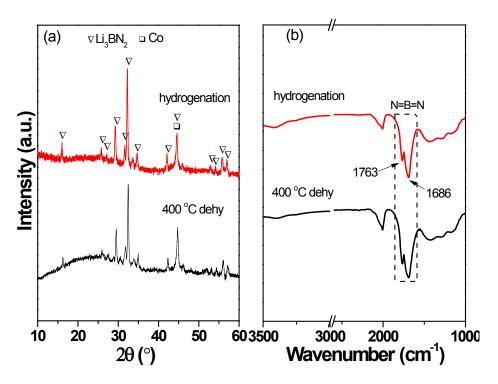


Fig. S3 XRD (a) and FTIR (b) of the hydrogenated 5 wt% Co@C-containing sample.