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Electronic Supplementary Information:

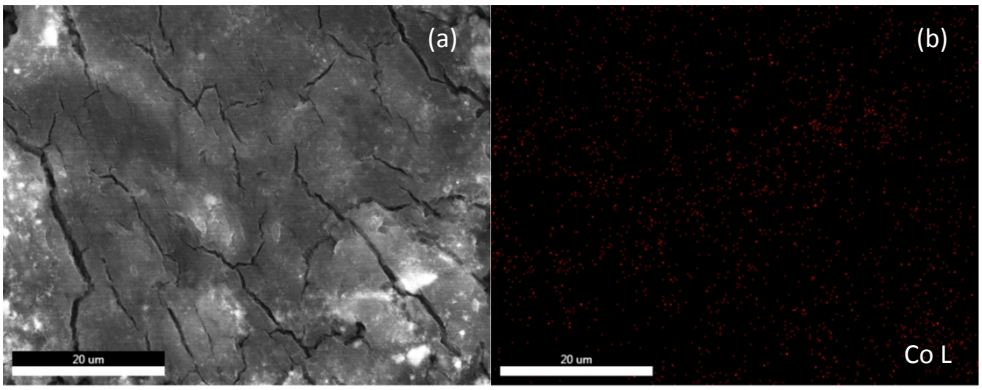

Fig. S1 SEM image (a) and the corresponding EDS mapping of Co (b) for the hand milled $LiBH_4 \cdot NH_3$-3LiH-0.1CoO sample.

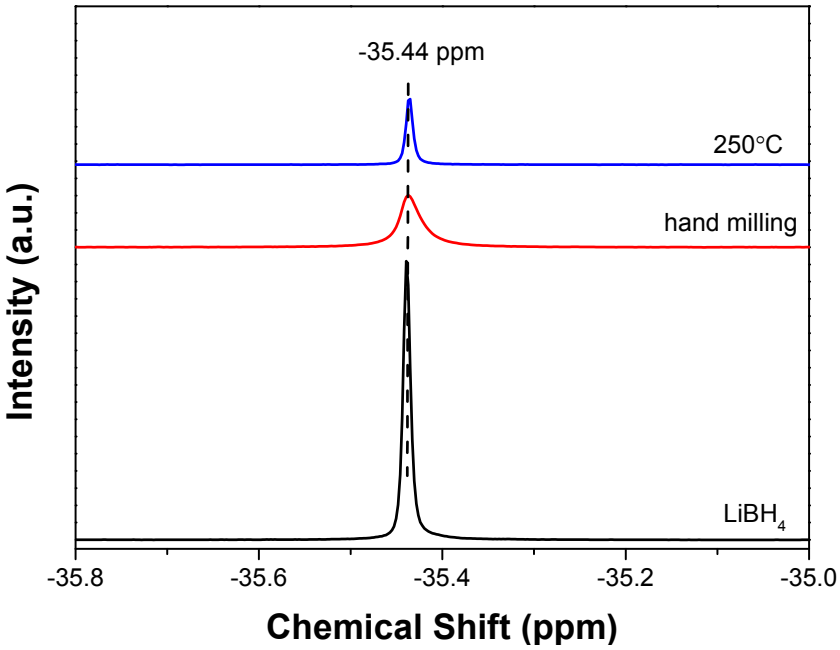

Fig. S2 ^{11}B NMR spectra of $LiBH_4$, the hand milled $LiBH_4 \cdot NH_3$-3LiH-0.1CoO sample and the $LiBH_4 \cdot NH_3$-3LiH-0.1CoO sample dehydrogenated at 250 °C.