

Supporting Information

Destabilization of LiBH_4 by the infusion of Bi_2X_3 ($\text{X} = \text{S}, \text{Se}, \text{Te}$):

An in-situ TEM investigation

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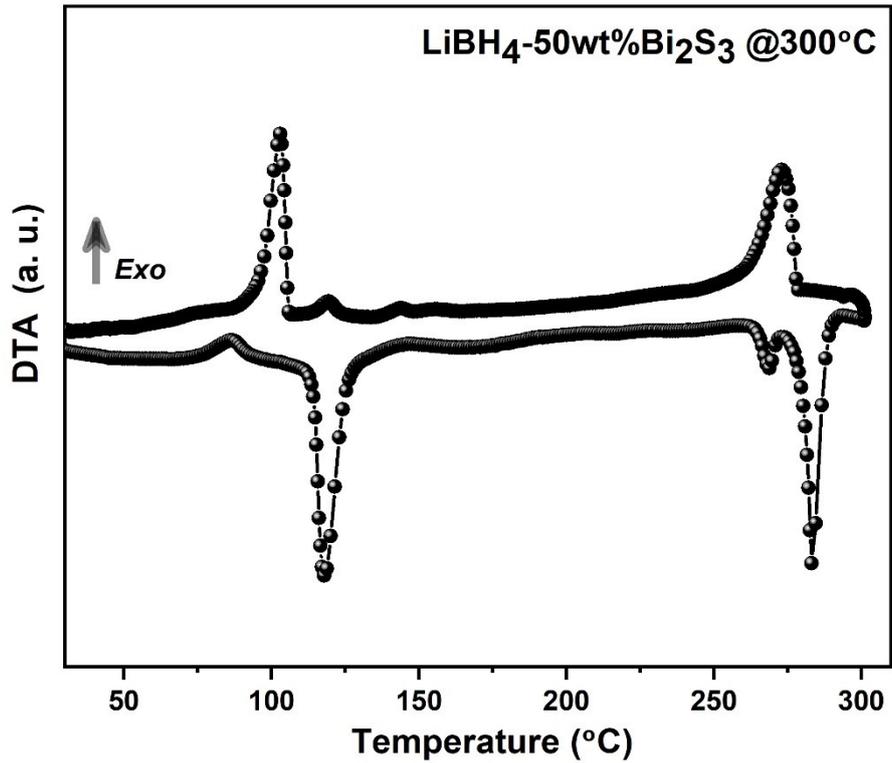


Fig S1: DTA profile of LiBH_4 -50wt% Bi_2S_3 composite with heating (downwards; endo) and cooling (upwards; exo) profiles

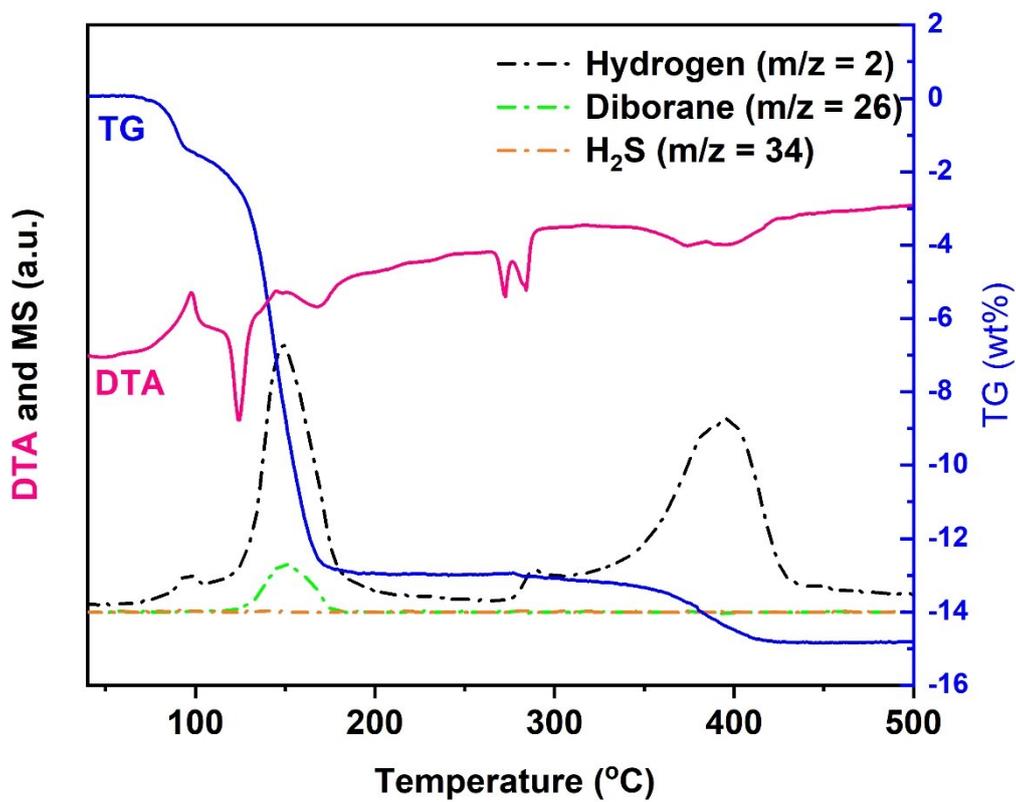


Fig S2: TG-DTA and MS profile of 12LiBH_4 - Bi_2S_3 sample

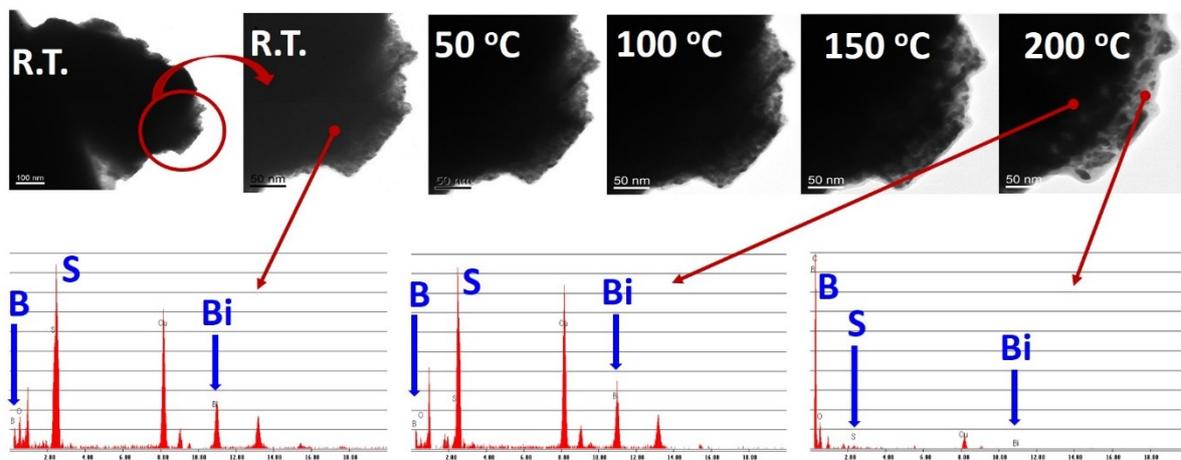


Fig S3: TEM Micrograph of LiBH_4 -50% Bi_2S_3 composite after milling and heating at different temperatures. EDS profile was obtained from the position shown by the start point of arrow

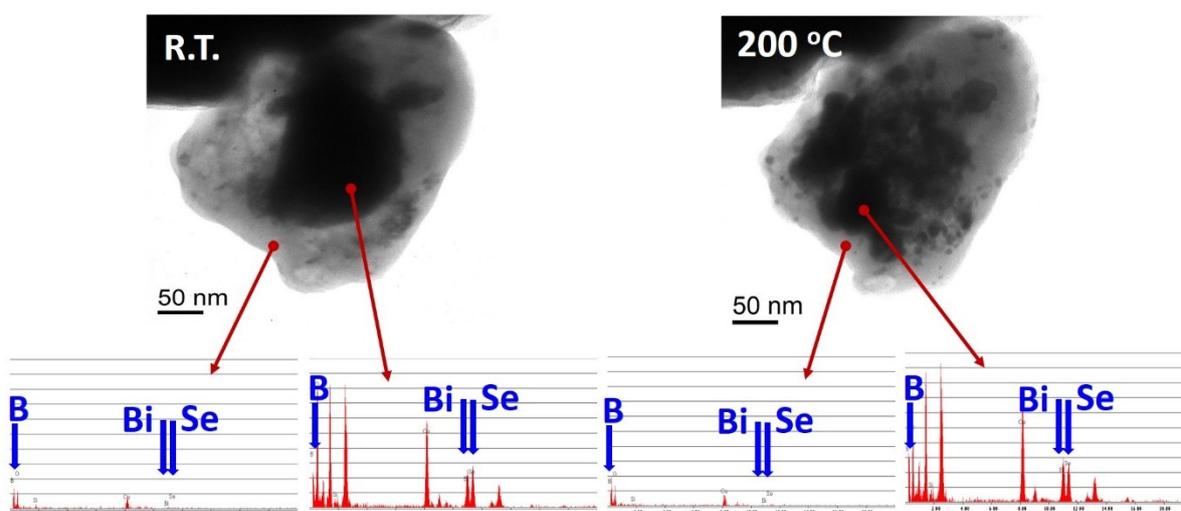


Fig S4: TEM Micrograph of LiBH_4 -50% Bi_2Se_3 composite after milling and heating at 450°C. EDS profile was obtained from the position shown by the start point of arrow.

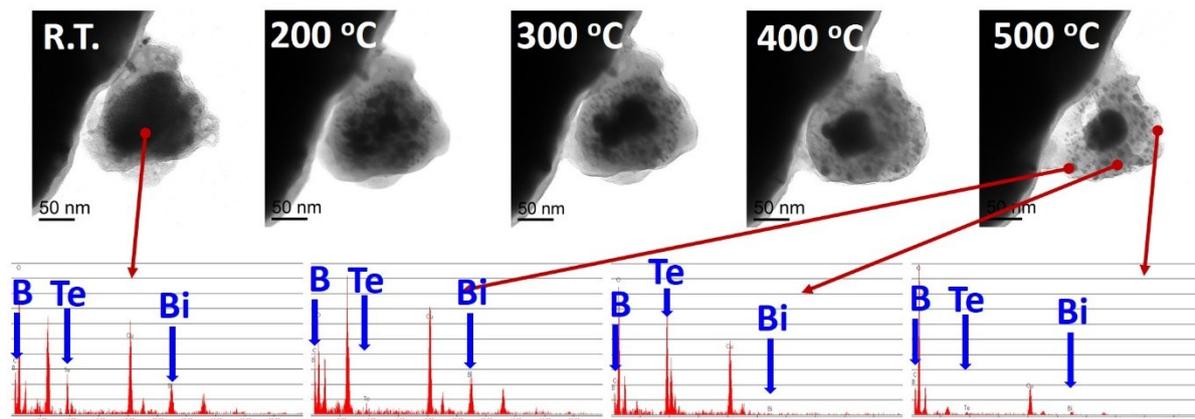


Fig S5: TEM Micrograph of LiBH_4 -50% Bi_2Te_3 composite after milling and heating at different temperatures. EDS profile was obtained from the position shown by the start point of arrow