

Supplementary Materials

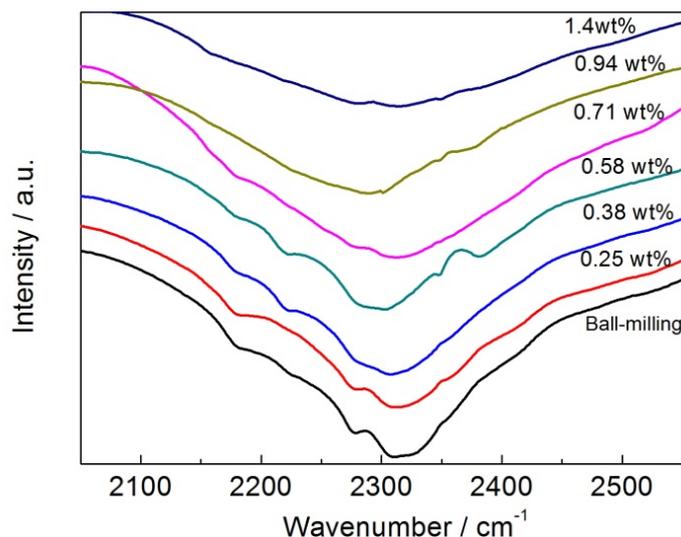


Figure S1. FT-IR spectra of B–H stretching vibrations from T₂ (2Mg(NH₂)₂–3LiH–LiBH₄) samples collected at 460 K at different degree of dehydrogenation: 0 wt%, ball-milling stage; 0.25 wt%; 0.38 wt%; 0.58 wt%; 0.71 wt%; 0.94 wt%; 1.4 wt%.

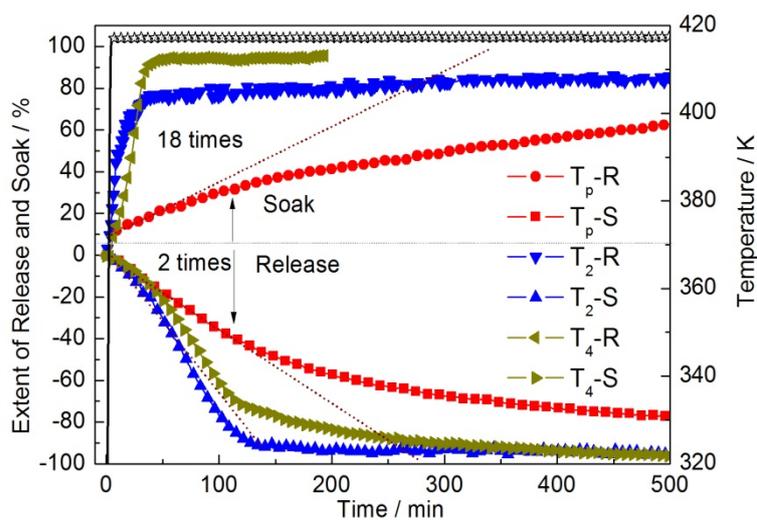


Figure S2. Isothermal hydrogen desorption and sorption of the 2Mg(NH₂)₂–3LiH composite (T_p), 2Mg(NH₂)₂–3LiH–LiBH₄ composite (T₂) and 2Mg(NH₂)₂–3LiH–1/3LiBH₄ composite (T₄) at 416 K under the pressure of 0.01 and 6 MPa, respectively.