

Supplementary Information

Figure S1. FTIR spectra of the Mg(BH₄)₂·2NH₃-MgF₂ samples with different F contents.



Figure S2. Volumetric release curves of the Mg(BH₄)₂·2NH₃-LiBH₄ samples.



Figure S3. MS curves of the as-prepared 25 mol% F-doped Mg(BH₄)₂·2NH₃ and its decomposition intermediate at 100 °C.



Figure S4. (a) Volumetric-release and (b) TG curves of the F-substituted Mg(BH₄)₂.