

Supporting information:

Enhanced hydrogen storage properties of NaAlH₄ co-catalysed with
niobium fluoride and single-walled carbon nanotubes

Jianfeng Mao^{a}, Zaiping Guo^{a,b*}, Huakun Liu^a*

^a Institute for Superconducting and Electronic Materials, University of Wollongong, NSW
2522, Australia

^b School of Mechanical, Materials & Mechatronics Engineering, University of Wollongong,
NSW 2522, Australia

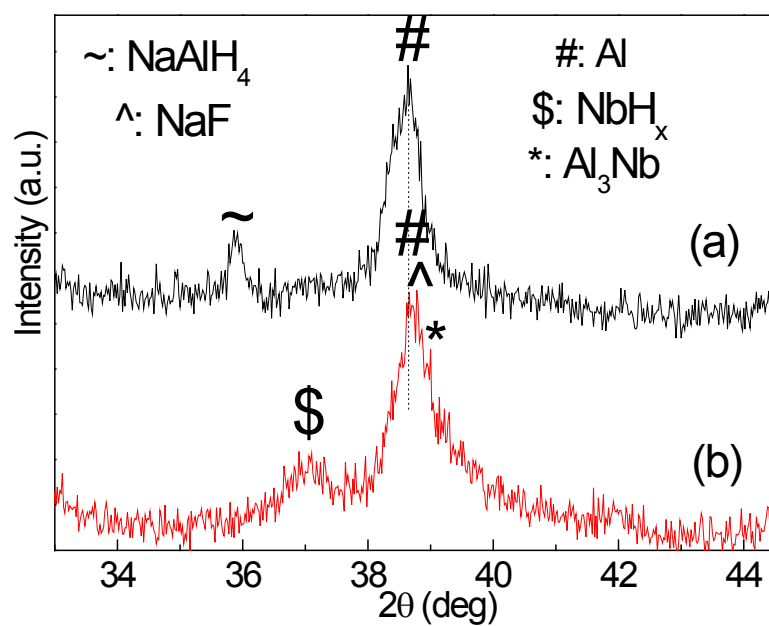


Figure S1. XRD patterns of the (a) NaAlH₄-30 wt% NbF₅-15 wt% SWCNT and (b) NaAlH₄-60 wt% NbF₅-30 wt% SWCNT samples after ball milling at 2θ of 33-44.5°.

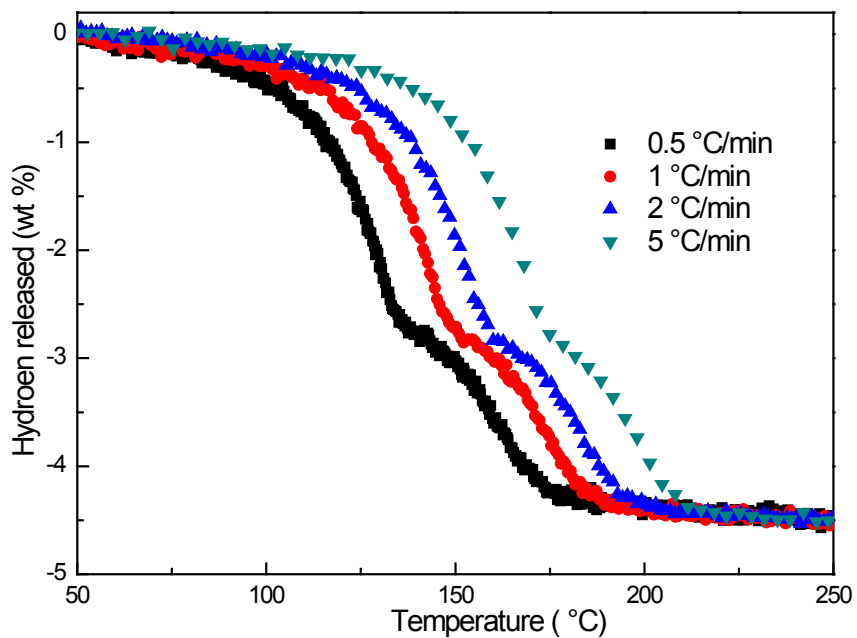


Figure S2. TPD curves of the NaAlH₄-3 mol% NbF₅-5 wt% SWCNT sample at various heating rate.

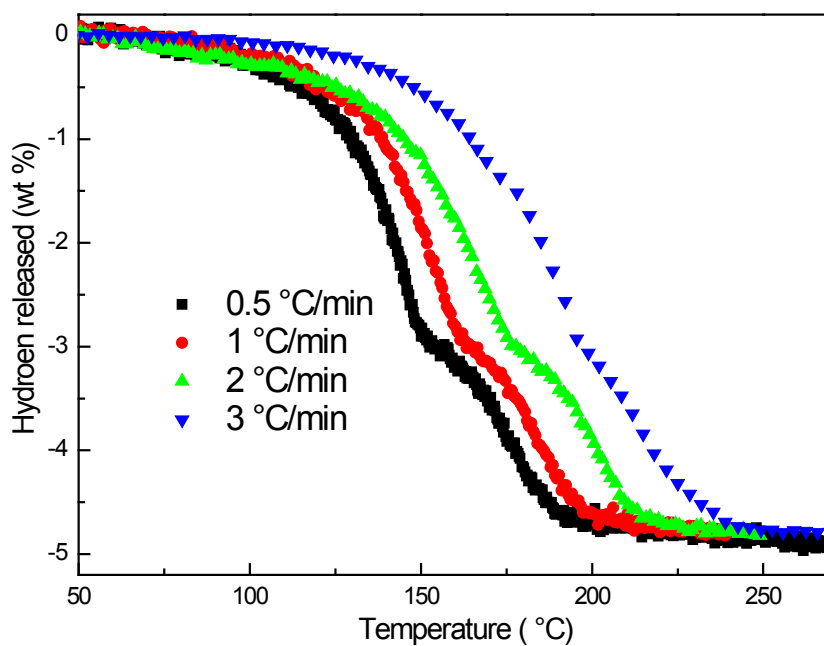


Figure S3. TPD curves of the NaAlH₄-3 mol% NbF₅ sample at various heating rate.

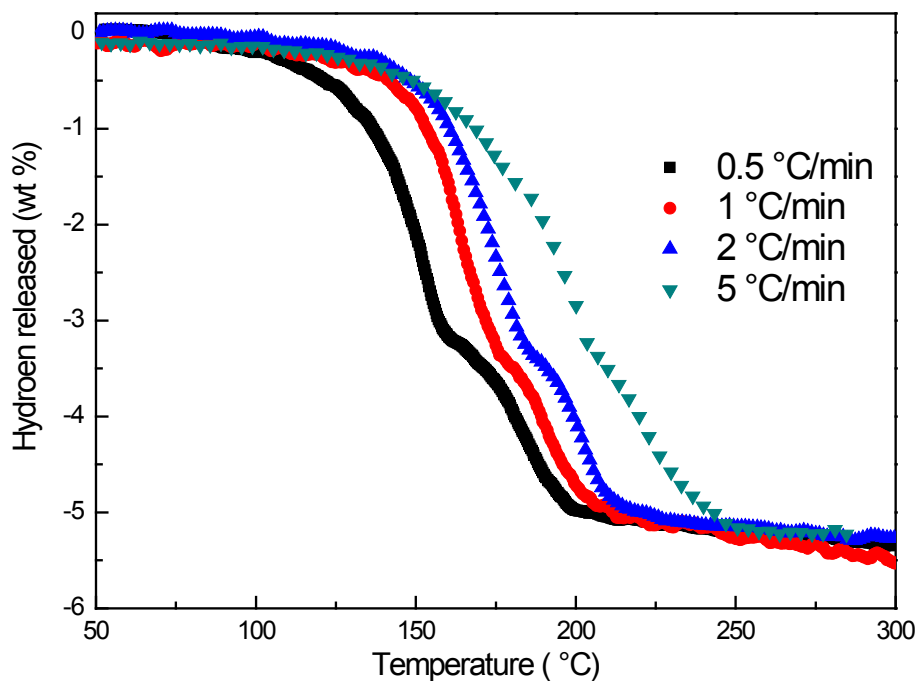


Figure S4. TPD curves of the NaAlH₄-5 wt% SWCNT sample at various heating rate.