

Supporting Information

Enhanced hydrogen storage performance for $\text{MgH}_2\text{--NaAlH}_4$ system – The effects of stoichiometry and Nb_2O_5 nanoparticles on cycling behaviour

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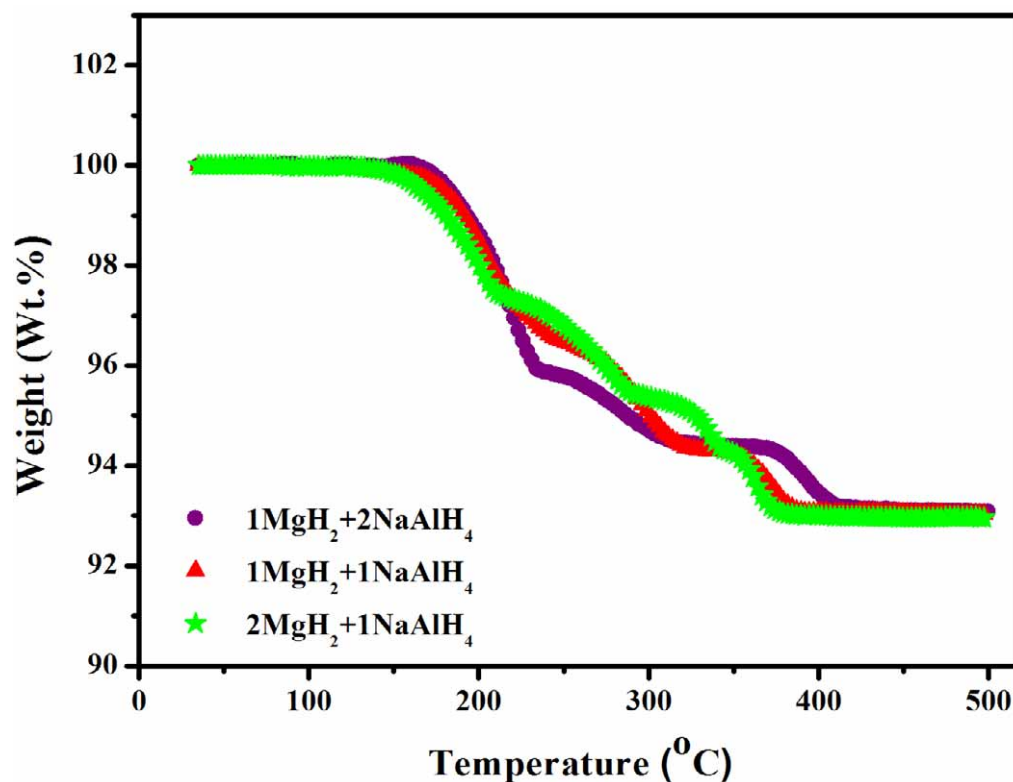


Fig. S1: TG profiles of $\text{MgH}_2\text{--NaAlH}_4$ composites (in mole ratios of 1:2, 1:1 and 2:1) at the ramping rate is $1\text{ }^{\circ}\text{C min}^{-1}$.

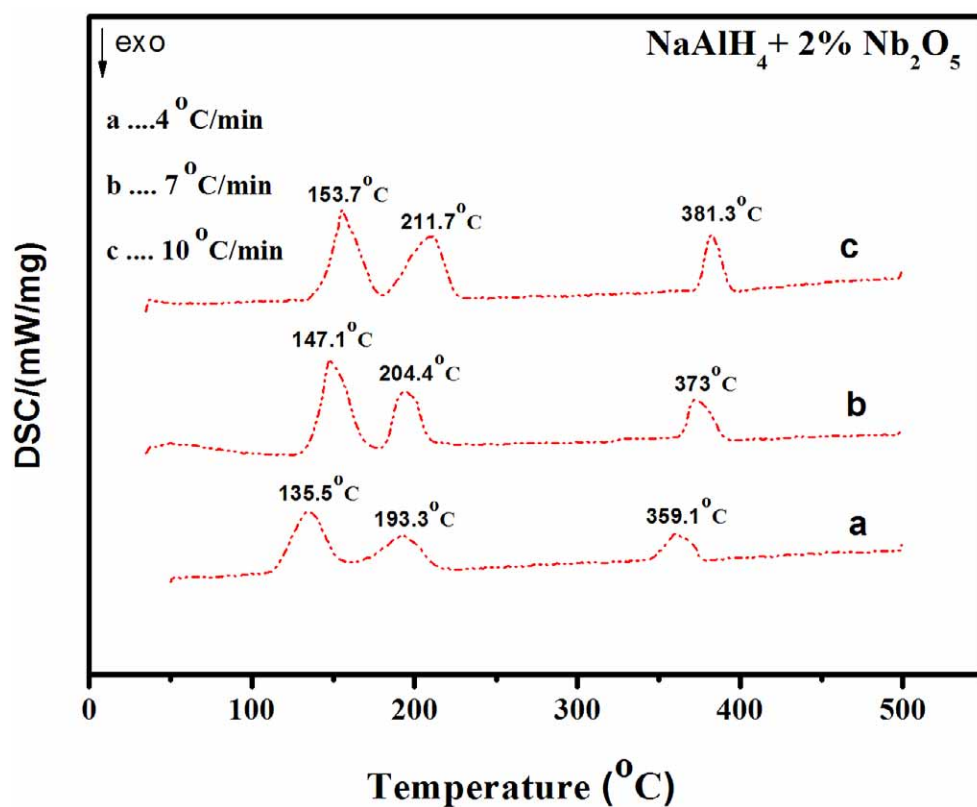


Fig. S2: The DSC profiles at various heating rates (4 °Cmin⁻¹, 7 °Cmin⁻¹ and 10 °Cmin⁻¹) for Nb₂O₅-doped NaAlH₄

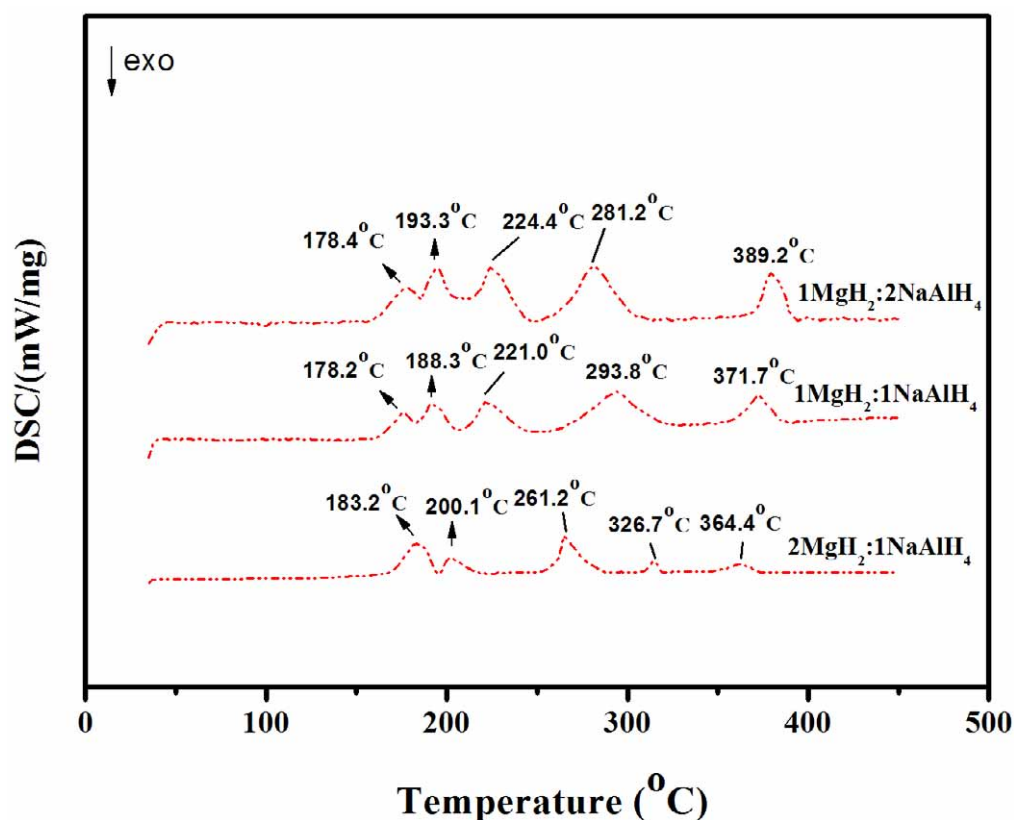


Fig. S3: The DSC profiles for $\text{MgH}_2\text{-NaAlH}_4$ composites (in mole ratio of 1:2, 1:1 and 2:1) at heating rate of $1\text{ }^\circ\text{Cmin}^{-1}$