


 Cite this: *RSC Adv.*, 2023, **13**, 23818

Correction: Effects of Ni precursors on the formation of Mg–Fe–Ni intermetallic hydrides, kinetics, and reversibility

 Palmarin Dansirima,^a Sophida Thiangviriya,^a Praphatsorn Plerdsranoy,^a
 Narong Chanlek^b and Rapee Utke^{*a}

DOI: 10.1039/d3ra90070c

rsc.li/rsc-advances

 Correction for 'Effects of Ni precursors on the formation of Mg–Fe–Ni intermetallic hydrides, kinetics, and reversibility' by Palmarin Dansirima *et al.*, *RSC Adv.*, 2023, **13**, 16926–16934, <https://doi.org/10.1039/D3RA01914D>.

The authors regret that there was an error in Table 1. The correct version of Table 1 is presented below.

Table 1 Reaction pathways and phase compositions of S1 and S2 during the 1st de/rehydrogenation

Samples	Possible reaction pathways and phase compositions
S1	
As-prepared	$\text{MgH}_2 + \text{Mg}_2\text{FeH}_6 + \text{Mg}_2\text{NiH}_4$
1st desorbed	$\text{Mg}_2\text{FeH}_6 \rightarrow 2\text{MgH}_2 + \text{Fe} + \text{H}_2$ $\text{MgH}_2 \rightarrow \text{Mg} + \text{H}_2$ $\text{Mg}_2\text{NiH}_4 \rightarrow \text{Mg}_2\text{Ni} + 2\text{H}_2$ $\text{Fe} + \text{Ni} \rightarrow \text{Fe-Ni}$
1st absorbed	$\text{Mg} + \text{H}_2 \rightarrow \text{MgH}_2$ $2\text{MgH}_2 + \text{Fe} + \text{H}_2 \rightarrow \text{Mg}_2\text{FeH}_6$ $\text{Mg}_2\text{Ni} + 2\text{H}_2 \rightarrow \text{Mg}_2\text{NiH}_4$ $2\text{MgH}_2 + \text{Fe-Ni} \rightarrow \text{Mg}_2\text{NiH}_4 + \text{Fe}^{33}$
S2	
As-prepared	$\text{Mg}_2\text{FeH}_6 + \text{Mg}_2\text{NiH}_4 + \text{Fe-Ni}$
1st desorbed	$\text{Mg}_2\text{FeH}_6 \rightarrow 2\text{MgH}_2 + \text{Fe} + \text{H}_2$ $\text{MgH}_2 \rightarrow \text{Mg} + \text{H}_2$ $\text{Mg}_2\text{NiH}_4 \rightarrow \text{Mg}_2\text{Ni} + 2\text{H}_2$ Fe-Ni (comparable to as-prepared state)
1st absorbed	$\text{Mg} + \text{H}_2 \rightarrow \text{MgH}_2$ $2\text{MgH}_2 + \text{Fe} + \text{H}_2 \rightarrow \text{Mg}_2\text{FeH}_6$ $x\text{Mg}_2\text{Ni} + (1-x)\text{Mg}_2\text{FeH}_6 + 3x\text{H}_2 \rightarrow \text{Mg}_2\text{Fe}_{(1-x)}\text{Ni}_x\text{H}_6$ $\text{Fe} + \text{Ni} \rightarrow \text{Fe-Ni}$

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

^aSchool of Chemistry, Institute of Science, Suranaree University of Technology, Nakhon Ratchasima 30000, Thailand. E-mail: rapee.g@sut.ac.th

^bSynchrotron Light Research Institute (Public Organization), Nakhon Ratchasima 30000, Thailand
