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

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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
<b>S1</b>	
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	$\text{Mg} + \text{H}_2 \rightarrow \text{MgH}_2$ $2\text{MgH}_2 + \text{Fe} + \text{H}_2 \rightarrow \text{Mg}_2\text{FeH}_6$ $\text{Mg}_2\text{Ni} + 2\text{H}_2 \rightarrow \text{Mg}_2\text{NiH}_4$ $2\text{MgH}_2 + \text{Fe–Ni} \rightarrow \text{Mg}_2\text{NiH}_4 + \text{Fe}^{33}$
<b>S2</b>	
As-prepared	$\text{Mg}_2\text{FeH}_6 + \text{Mg}_2\text{NiH}_4 + \text{Fe–Ni}$
1st desorbed	$\text{Mg}_2\text{FeH}_6 \rightarrow 2\text{MgH}_2 + \text{Fe} + \text{H}_2$ $\text{MgH}_2 \rightarrow \text{Mg} + \text{H}_2$ $\text{Mg}_2\text{NiH}_4 \rightarrow \text{Mg}_2\text{Ni} + 2\text{H}_2$ $\text{Fe–Ni (comparable to as-prepared state)}$
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.

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