

Correction

# Correction: Li et al. Liquid Regions of Lanthanum-Bearing Aluminosilicates. *Materials* 2020, 13, 450

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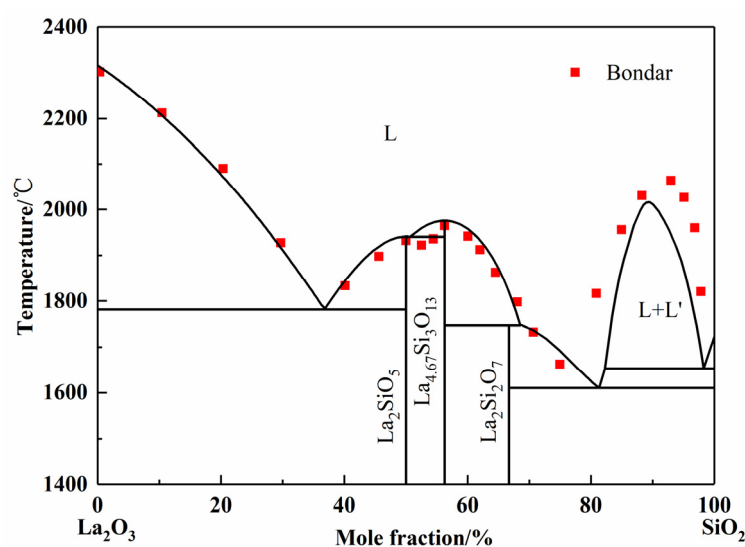
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In the original publication [1], there was a mistake in *Figure 2c* Phase diagram of  $\text{La}_2\text{O}_3$ - $\text{SiO}_2$  system as published. The wrong figure was one progress picture based on the Toropov group's older literature data, which is inconsistent with the full text description. The corrected *Figure 2c* for the phase diagram of the  $\text{La}_2\text{O}_3$ - $\text{SiO}_2$  system appears below.



(c) Phase diagram of  $\text{La}_2\text{O}_3$ - $\text{SiO}_2$  system.

**Figure 2.** Calculated phase diagrams of binary systems.

There was an error in the original publication. One chemical formula  $\text{La}_4\text{Si}_3\text{O}_{12}$  should be  $\text{La}_{4.67}\text{Si}_3\text{O}_{13}$  to be consistent with the paper. A correction has been made to 3.1.3. *The  $\text{La}_2\text{O}_3$ - $\text{SiO}_2$  System:*

The  $\text{La}_2\text{O}_3$ - $\text{SiO}_2$  system is rarely studied by experiment or simulation, and different opinions on the intermediate phases have always been there. In 1961, Toropov released the  $\text{La}_2\text{O}_3$ - $\text{SiO}_2$  phase diagram, and the intermediate compounds are  $\text{La}_2\text{Si}_2\text{O}_7$ ,  $\text{La}_2\text{SiO}_5$ , and  $\text{La}_4\text{Si}_3\text{O}_{12}$ . In 1982, Bondar, from the same research group as Toropov, modified the  $\text{La}_4\text{Si}_3\text{O}_{12}$  phase to  $\text{La}_{4.67}\text{Si}_3\text{O}_{13}$ . Li finished the calculated  $\text{La}_2\text{O}_3$ - $\text{SiO}_2$  system employing simplified thermodynamic properties in 1999 [11]. However, the adoptive compound was  $\text{La}_4\text{Si}_3\text{O}_{12}$ . Kim only calculated the two-liquid region using the Redlich–Kister expression



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[44]. However, the number and values of parameters given by Li and Kim are completely different. In this work,  $\text{La}_2\text{Si}_2\text{O}_7$ ,  $\text{La}_2\text{SiO}_5$ , and  $\text{La}_{4.67}\text{Si}_3\text{O}_{13}$  were chosen as the intermediate compounds, which were found in the equilibrium experimental results, as shown in Figure 5 later. Since the available experimental points are from Toropov and Bondar, the interaction energy of solution phase and the derived thermodynamic parameters of silicates were optimized. The calculated phase diagram is presented in Figure 2c [45,46]. It can be seen that most of the experiment points have good agreement with the calculation results.

The authors state that the scientific conclusions are unaffected. This correction was approved by the Academic Editor. The original publication has also been updated.

## Reference

1. Li, Y.; Zhang, T.; Feng, Y.; Liu, C.; Jiang, M. Liquid Regions of Lanthanum-Bearing Aluminosilicates. *Materials* **2020**, *13*, 450. [[CrossRef](#)] [[PubMed](#)]

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