CORRECTION

Correction to: Thermodynamic Database Development for the $\text{ZrO}_2\text{-MgO-MnO}_x$ System

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be corrected to “ $P6_3/mmc$.” The corrected Table 1 is shown below.

Two errors occurred in Table 1 of the original article. In the model for β -spinel, the parameter “ Mn^{+4} ” was omitted. Additionally, the space group for the hcp structure should

The original article can be found online at <https://doi.org/10.1007/s11669-020-00832-2>.

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Table 1 Phases in the Zr-Mn-Mg-O system

Phase name and abbreviation	Space group	Thermodynamic model
ZrO ₂ based solid solutions		(Zr ⁺⁴ , Mg ⁺² , Mn ⁺² , Mn ⁺³) ₁ (O ⁻² , Va) ₂
cubic, c-ZrO ₂	Fm-3m	
tetragonal, t-ZrO ₂	P4 ₂ /nmc	
monoclinic, m-ZrO ₂	P2 ₁ /c	
halite (H)	Fm-3m	(Mg ⁺² , Mn ⁺² , Mn ⁺³ , Zr ⁺⁴ , Va) ₁ (O ⁻²) ₁
α-spinel (αSp)	I4 ₁ /amd	(Mg ⁺² , Mn ⁺² , Mn ⁺³) ₁ (Mg ⁺² , Mn ⁺² , Mn ⁺³ , Va) ₂ (Mg ⁺² , Mn ⁺² , Va) ₂ (O ⁻²) ₄
β-spinel (βSp)	*	(Mg ⁺² , Mn ⁺²) ₁ (Mg ⁺² , Mn ⁺² , Mn ⁺³ , Mn ⁺⁴ , Zr ⁺⁴ , Va) ₂ (Mg ⁺² , Mn ⁺² , Va) ₂ (O ⁻²) ₄
Mn ₂ O ₃	Ia-3	(Mn ⁺³ , Mn ⁺²) ₂ (O ⁻² , Va) ₃ (O ⁻² , Va) ₁
MnO ₂	P4 ₂ /mm	(Mn ⁺⁴) ₁ (O ⁻²) ₂
bcc	Im-3m	(Mg, Mn, Zr) ₁ (O, Va) ₃
hcp	P6 ₃ /mmc	(Mg, Mn, Zr) ₁ (O, Va) _{0.5}
fcc	Fm-3m	(Mg, Mn, Zr) ₁ (O, Va) ₁
cbcc	I-43m	(Mg, Mn, Zr) ₁ (Va) ₁
cub_A13	P4 ₁ 32	(Mg, Mn, Zr) ₁ (Va) ₁
C14-ZrMn ₂ (C14)	P6 ₃ /mmc	(Zr, Mn) ₂ (Zr, Mn) ₁

*β-spinel is supposed to have a cubic structure. However, in the work of Pavlyuchkov et al.^[8], β-spinel has been identified by a tetragonal structure, which is very close to cubic symmetry.

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