

## Corrigendum

# A structure hierarchy for silicate minerals: sheet silicates — CORRIGENDUM

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Table 5 of Hawthorne *et al.* (2019) lists five minerals: arapovite, ekanite, iraqite-(La), steacyite and turkestanite, as belonging to the ekanite group, with a sheet structure consisting of folded  $[4.8^2]$  sheets of tetrahedra of the form  $[\text{Si}_4\text{O}_{10}]$ . Ekanite (Szymański *et al.*, 1982) is a sheet structure consisting of folded  $[4.8^2]$  sheets of tetrahedra and is classified correctly. However, in the other minerals mentioned above, the silicate unit consists of a four-membered double-ring of the form  $[\text{Si}_8\text{O}_{20}]$  as correctly illustrated by Uvarova *et al.* (2004). Arapovite (Uvarova *et al.*, 2004), iraqite-(La) (Livingstone *et al.*, 1976), steacyite (Perrault and Szymański, 1982) and turkestanite (Kabalov *et al.*, 1998) are not sheet silicates and do not belong in this paper. We apologize for this miserable error.

Livingstone A., Atkin D. and Hutchison D. (1976) Iraqite, a new rare-earth mineral of the ekanite group. *Mineralogical Magazine*, **40**, 441–445.  
Perrault G. and Szymański J.T. (1982) Steacyite, a new name, and re-evaluation of the nomenclature of “ekinite”-group minerals. *The Canadian Mineralogist*, **20**, 59–63.  
Szymański J.T., Owens D.R., Roberts A.C., Ansell H.G. and Chao G.Y. (1982) A mineralogical study and crystal-structure determination of nonmetamict ekanite,  $\text{ThCa}_2\text{Si}_8\text{O}_{20}$ . *The Canadian Mineralogist*, **20**, 65–75.  
Uvarova Y.A., Sokolova E., Hawthorne F.C., Agakhanov A. and Pautov L.A. (2004) The crystal structure of arapovite,  $\text{U}^{4+}(\text{Ca},\text{Na})_2\text{K}_{1-x}\square_x[\text{Si}_8\text{O}_{20}]$ ,  $x \sim 0.5$ , a new mineral of the steacyite group from the Dara-i-Pioz moraine, Tien-Shan Mountains, Tajikistan. *The Canadian Mineralogist*, **42**, 1005–1011.

## References

- Hawthorne F.C., Uvarova Y.A. and Sokolova E. (2019) A structure hierarchy for silicate minerals: sheet silicates. *Mineralogical Magazine*, **83**, 3–55.  
Kabalov Yu. K., Sokolova E.V., Pautov L.A. and Schneider Yu. (1998) Crystal structure of a new mineral, turkestanite, a Ca analogue of steacyite. *Kristallographiya*, **43**, 632–636.

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