

Erratum

Erratum to ‘Sorption of silicon on magnetite and other corrosion products of iron’ [J. Nucl. Mater. 348 (2006) 60–69]

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Unfortunately, there was an error in Eq. (13) in the above paper. The correct formula is given by

$$m_{\text{magnetite}} = m_{\text{Fe}} \times \frac{M_{\text{magnetite}}}{3M_{\text{Fe}}} = 2963 \text{ kg}$$

Consequently, erroneous results were provided for Eqs. (14)–(16) and (18). The correct values are given below.

$$m_{\text{Si sorbed}} = 1.58 \text{ kg}$$

$$m_{\text{solubilized glass}} = 7.52 \text{ kg}$$

$$\text{total alteration thickness} = 1.58 \times 10^{-3} \text{ m}$$

$$t = 1215 \text{ years}$$

The conclusion concerning glass alteration remains unchanged: the period of time during which glass would be altered at its initial rate is small compared with the glass expected lifetime (300 000 years).

Acknowledgement

The authors acknowledge Bernd Grambow from SUBATECH who noticed this mistake.

DOI of original article: [10.1016/j.jnucmat.2005.09.002](https://doi.org/10.1016/j.jnucmat.2005.09.002)

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