Erratum to: Modeling defects and plasticity in MgSiO\textsubscript{3} post-perovskite: Part 3—Screw and edge [001] dislocations

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In the original publication of the article, Eqs. (2) and (3) are provided in the incorrect form. The corresponding correct equations are provided below.

Equation 2
The resulting force acting on the dislocation line is given by the Peach–Koehler equation (Peach and Koehler 1950):
\[ F_l = (\sigma \cdot b) \times l, \]
where \( F_l \) is a force acting on a unit length of a dislocation line \( l \); \( \sigma \) is the applied stress tensor resulting from straining the cell and \( b \) is the Burgers vector.

Equation 3
Accounting for a change in dissociation width \( R \) in various metastable configurations with respect to that in the stable dislocation core, the associated energy increase \( \Delta W \) should scale with the following expression (Hirth and Lothe 1982):
\[
\frac{\Delta W}{L} = \gamma |R_{SF} - R^{eq}_{SF}| - \frac{\mu}{2\pi} (b_1 \cdot l_1)(b_2 \cdot l_2) \ln \frac{R_{SF}}{R^{eq}_{SF}} \]
\[- \frac{\mu}{2\pi(1-\nu)} [(b_1 \times l_1) \cdot (b_2 \times l_2)] \ln \frac{R_{SF}}{R^{eq}_{SF}},
\]
where \( \Delta W/L \) is the increase in energy per dislocation unit length with respect to the equilibrium configuration characterized by a dissociation width \( R^{eq}_{SF} \); \( R_{SF} \) is the extension of a perfect stacking fault between the two partials; \( \mu \) is the anisotropic shear modulus; \( \nu \) is the Poisson ratio; \( b_1 \) and \( l_1 \) are the partial Burgers vectors and the dislocation line vectors, respectively.

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