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Author Correction: Insight on Tafel slopes from a microkinetic analysis of aqueous electrocatalysis for energy conversion

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In this Article, the authors did not originally include an assumption justifying why the activity of species, a_i , (dimensionless) is used to describe the rates of the reactions. This is because these terms included standard concentration c° (which is 1 M).

Therefore, in the Results and Discussion,

“The constants include Faraday’s constant, $F = 96500 \text{ C mol}^{-1}$, the gas constant, $R = 8.314 \text{ J mol}^{-1} \text{ K}^{-1}$, temperature T , the electron transfer coefficient, $\alpha = 0.5$, and the surface area of the electrode, A .”

should read:

“The constants include Faraday’s constant, $F = 96500 \text{ C mol}^{-1}$, the gas constant, $R = 8.314 \text{ J mol}^{-1} \text{ K}^{-1}$, temperature T , the electron transfer coefficient, $\alpha = 0.5$, and the surface area of the electrode, A . The activity of the species i is given by $a_i = \gamma_i c_i / c^\circ$, where γ_i is the mean activity coefficient, c_i is the concentration, and c° is the standard concentration. Since the standard concentration is 1 M, the effective concentration can be simplified into $a_i c^\circ = a_i$, and this is used hereafter.”

This change does not affect conclusions of the Article.

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