Mathematical modeling of the operation of SOFC Nickel-cermet anodes

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In a recent article [1], we have inadvertently used the same symbol, I , to denote two different quantities, i.e., the actual anodic current in Eq. 4, for which the symbol I should be maintained, and the maximum anodic current, I_m , corresponding to zero coverage of adsorbed species in Eqs. 8, 14, 26, 27, and 28 for which the symbol I must be replaced by I_m . The former symbol is the variable whose value is obtained via the solution of the model equations, the latter one is a property of the metal–electrolyte interface, equal at zero overpotential with the exchange current. Thus, in Eqs. 8, 14, 26, 27, and 28, the symbol I

must be replaced by I_m and, for more clarity, the following entry must be added to the list of symbols:

I_m : maximum current corresponding to a vacant (adsorption-free) electrode surface.

This notation correction does not affect any of the results or conclusions of the paper. We are very thankful to Professor V. Zhdanov for bringing this notation problem to our attention.

[1] D. Presvytes and C.G. Vayenas, Mathematical modeling of the operation of SOFC Nickel-cermet anodes, *Ionics* 13 (2007), 9–18.

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