



Erratum

Erratum to “Modeling of methane fed solid oxide fuel cells: Comparison between proton conducting electrolyte and oxygen ion conducting electrolyte” [J. Power Sources 183 (2008) 133–142]

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The authors regret errors which appeared in the above mentioned article. The authors would like to apologize for any inconvenience this may have caused to the readers of the journal.

The open-circuit potential of methane fed SOFC-H shown in Figs. 3, 6(a), 6(b) and 8(a) were plotted incorrectly. Accordingly, the discussion on page 139, “As can be seen, the working potential of the CH₄ fed SOFC-H is lower than that of the SOFC-O at $J < 7500 \text{ A m}^{-2}$ and it quickly drops to zero at a current density of about 8600 A m^{-2} ”, needs to be corrected. The correct one is “As can be seen, the working potential of the CH₄ fed SOFC-H is significantly higher than that of the SOFC-O at a low current density due to a higher open-circuit potential of SOFC-H. With an increase in current density, the working potential of SOFC-H drops quickly. As a result, the working potential of SOFC-H is comparable with that of SOFC-O at a typical current density between 5000 A m^{-2} and 7000 A m^{-2} ”.

The correct figures are provided below:

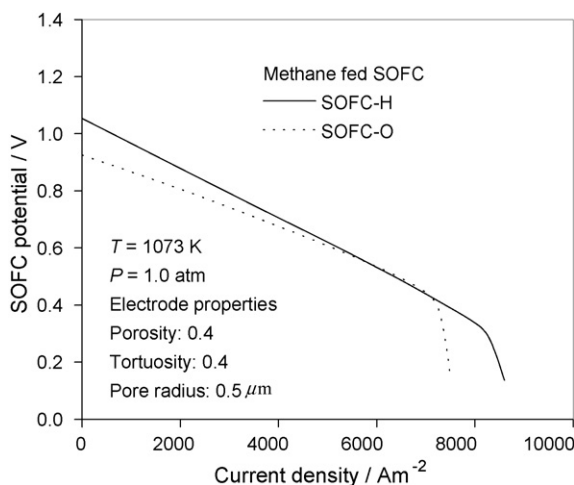


Fig. 3. Comparison of the operating voltage of SOFC-H and SOFC-O.

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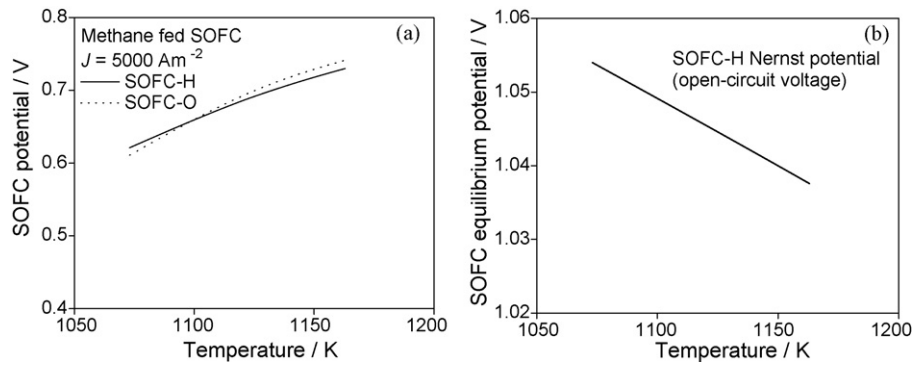


Fig. 6. Comparison of the performance of CH₄ fed SOFC-H and SOFC-O at different temperatures: (a) operating potentials of SOFC-H and SOFC-O and (b) Nernst potentials of SOFC-H.

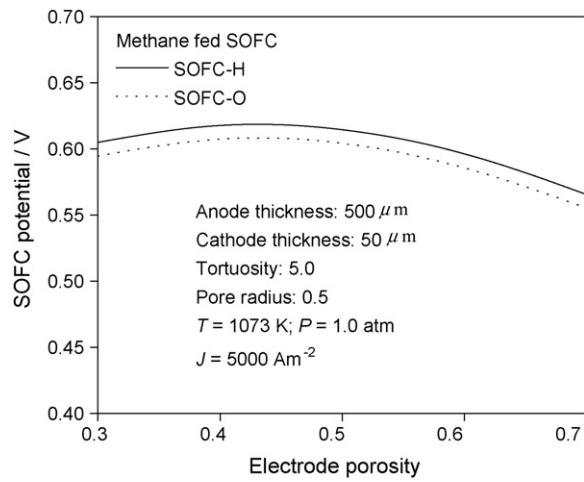


Fig. 8. (a) Comparison of the performance of CH₄ fed SOFC-H and SOFC-O at different electrode porosity – SOFC potential.