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Supplementary Information

Ni-*M* (*M* = Sn and Sb) intermetallic-based catalytic functional layer as a built-in safeguard for hydrocarbon-fueled solid oxide fuel cells

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Supplementary Figures

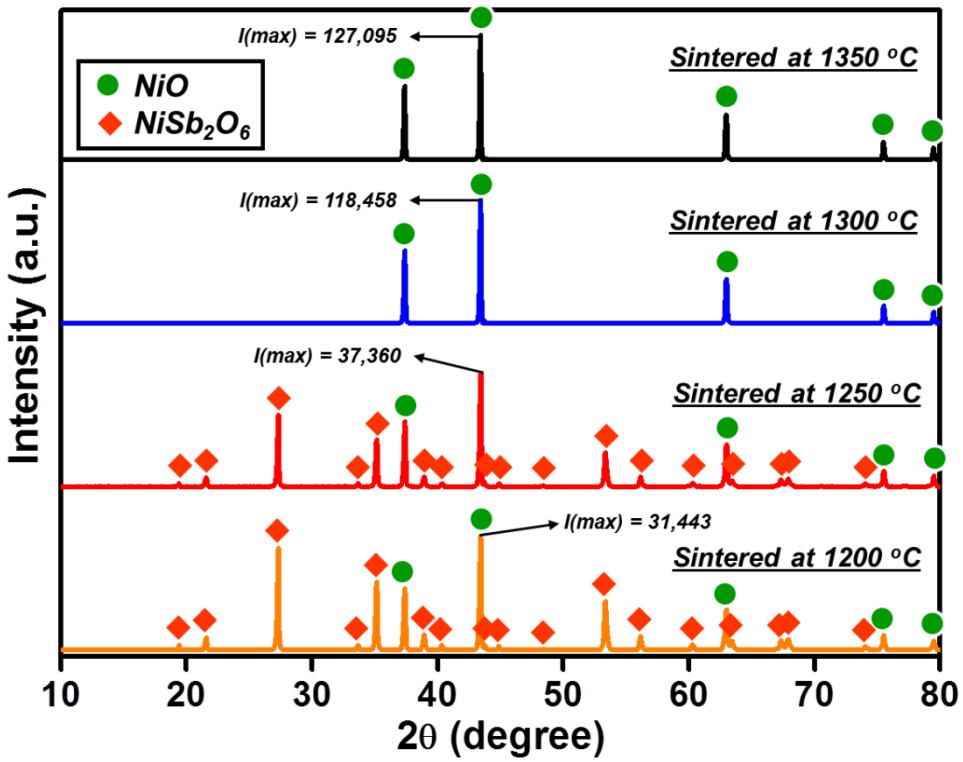

Fig. S1 XRD patterns of Sb-incorporated NiO depending on the firing temperatures, showing that Sb compound is lost at temperature above 1300 °C.

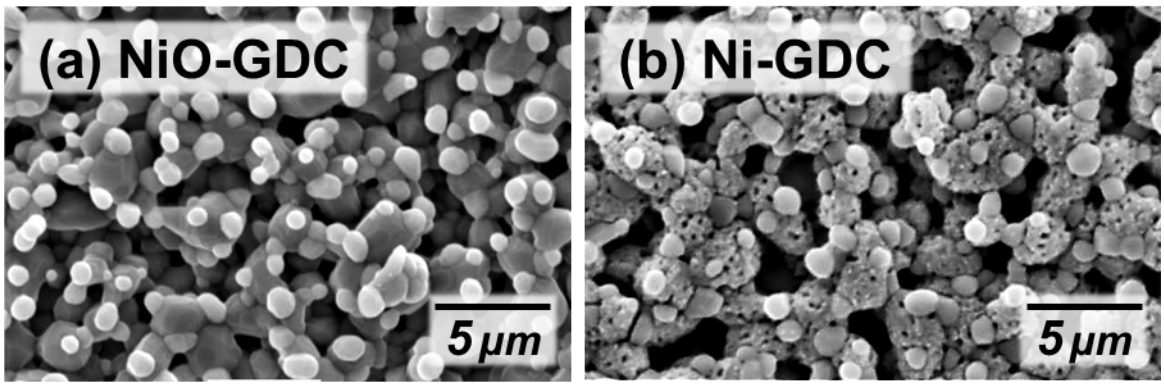

Fig. S2 SEM micrographs of Ni-GDC anode surface (a) before and (b) after reduction.

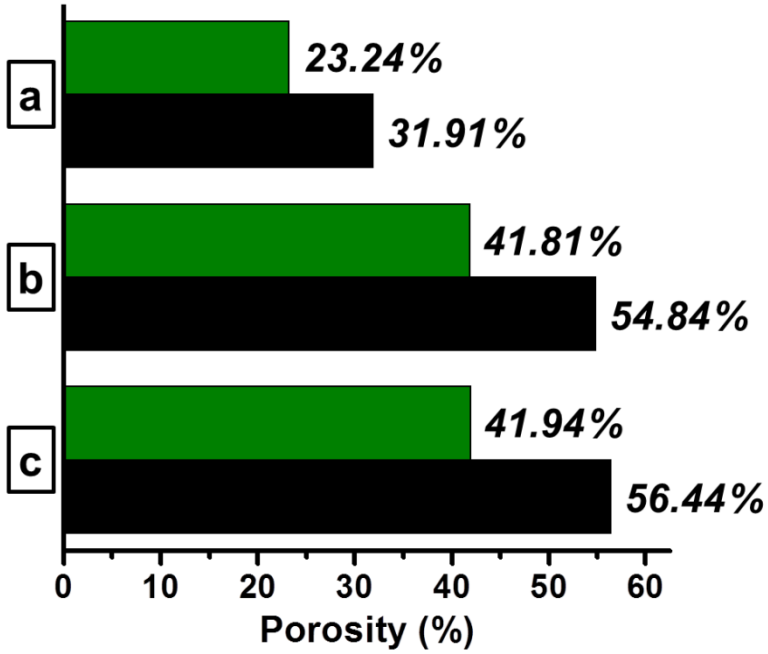

Fig. S3 Porosities of (a) Ni-GDC anode-support, (b) Sn/Ni-GDC CFL, and (c) Sb/Ni-GDC CFL heat-treated at each sintering temperature. (Green: before reduction, black: after reduction)