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Anode Morphology and Performance of a Fuel Cells

Authors: **…r Test (1), Andreas Check (2), Nikolai Next (1), Viktor Final (2)**

Town/Country: (1) Uni Top, Institute of Ceramic Technologies; Clean Town/Wonderland

(2) Innofirm Services; Tech City/Katland

Phone/Mobil: Tel.: +41-56-987-1234 Mobile: +41-22-333-444

E-mail: Peter.Test@fastmail.com

Subtitle1 → **Abstract**

Text

…e key components of solid oxide fuel cells. High porosity is essential for the fuel gas …in the outer region of the anode structure. Near the electrolyte, however, the charge exchange is of importance. The two electrons released by each arriving oxygen ion have to be conducted by the Nickel in the Cermet material to the bipolar plate. After passing through the same, they become available at the cathode of the next cell for the ionization of other oxygen atoms. On the anode the charge exchange occurs along triple phase boundaries, i.e. along lines formed by the ion conducting electrolyte, the electron conducting porous anode and gaseous fuel molecules filling the voids.

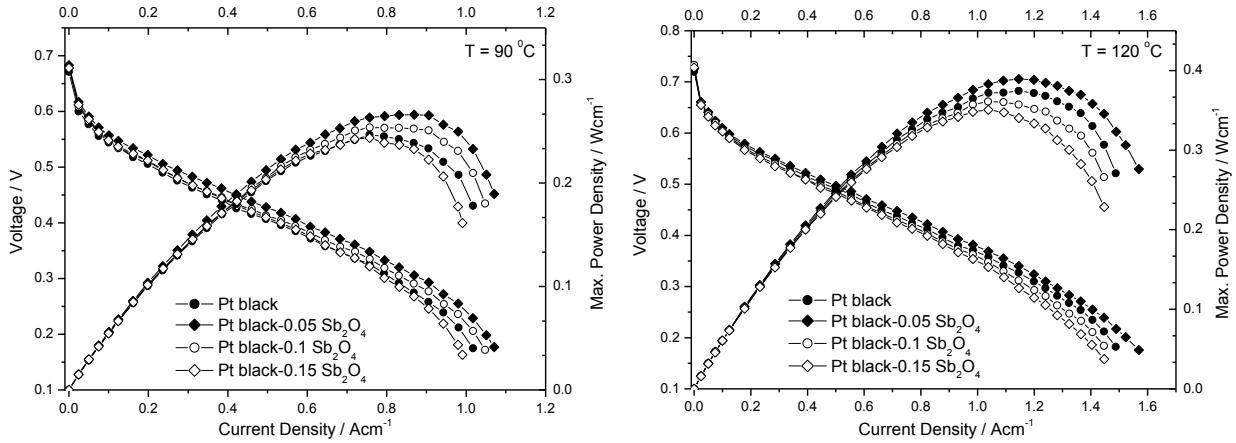

Fig. 1 The polarization curves compared to pure Pt catalyst operated at (a) 90°C and (b) 120°C.

Figure/Table description Text (centered)

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Peter Test (1), Andreas Check (2), Nikolai Next (1), Viktor Final (2) (1) Uni Top, Institute of Ceramic Technologies; Cleanan Town/Wonderland (2) Innofirm Services; Tech City/Katland	**Authors** Address Address Address

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