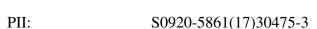
Accepted Manuscript

Title: $Sm_{0.5}Ba_{0.5}MnO_{3-\delta}$ anode for solid oxide fuel cells with hydrogen and methanol as fuels

Authors: Nianjun Hou, Ping Li, Tianmu Lv, Tongtong Yao, Xueli Yao, Tian Gan, Lijun Fan, Pengzhi Mao, Yicheng Zhao, Yongdan Li



DOI: http://dx.doi.org/doi:10.1016/j.cattod.2017.06.034

Reference: CATTOD 10906

To appear in: Catalysis Today

Received date: 29-12-2016 Revised date: 1-6-2017 Accepted date: 26-6-2017

Please cite this article as: Nianjun Hou, Ping Li, Tianmu Lv, Tongtong Yao, Xueli Yao, Tian Gan, Lijun Fan, Pengzhi Mao, Yicheng Zhao, Yongdan Li, Sm0.5Ba0.5MnO3-δ anode for solid oxide fuel cells with hydrogen and methanol as fuels, Catalysis Todayhttp://dx.doi.org/10.1016/j.cattod.2017.06.034

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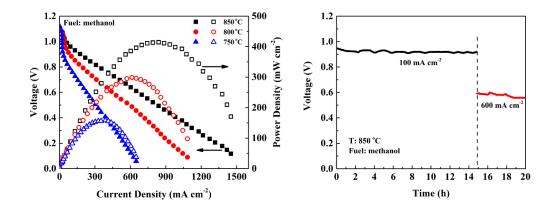
Nianjun Hou^{1,2}, Ping Li^{1,2}, Tianmu Lv^{1,2}, Tongtong Yao^{1,2}, Xueli Yao^{1,2}, Tian $Gan^{1,2}$, Lijun $Fan^{1,2}$, Pengzhi $Mao^{1,2}$, Yicheng Zhao^{1,2*}, Yongdan $Li^{1,2*}$

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Graphical Abstract



Research Highlights

- Sm_{0.5}Ba_{0.5}MnO₃ is studied as an anode of solid oxide fuel cells fed with methanol.
- The single cell exhibits a maximum power density of 415 mW cm⁻² at 850 °C.
- The cell shows a promising stability under both low and high current densities.

Abstract

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