

Technical University of Denmark



Effects of the fabrication process on the grain-boundary resistance in BaZr_{0.9}Y_{0.1}O₃-

Ricote, S.; Bonanos, Nikolaos; Manerbino, A.; Sullivana, N. P.; Coorsc, W. G.

Published in:
Journal of Materials Chemistry A

Link to article, DOI:
[10.1039/c5ta90117k](https://doi.org/10.1039/c5ta90117k)

Publication date:
2015

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):
Ricote, S., Bonanos, N., Manerbino, A., Sullivana, N. P., & Coorsc, W. G. (2015). Effects of the fabrication process on the grain-boundary resistance in BaZr_{0.9}Y_{0.1}O₃-. Journal of Materials Chemistry A, 3(23), 12558. DOI: 10.1039/c5ta90117k

DTU Library

Technical Information Center of Denmark

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.



CrossMark
click for updates

Cite this: *J. Mater. Chem. A*, 2015, **3**, 12558

DOI: 10.1039/c5ta90117k

www.rsc.org/MaterialsA

Correction: Effects of the fabrication process on the grain-boundary resistance in $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_{3-\delta}$

S. Ricote,^{*a} N. Bonanos,^b A. Manerino,^c N. P. Sullivan^a and W. G. Coors^c

Correction for 'Effects of the fabrication process on the grain-boundary resistance in $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_{3-\delta}$ ' by S. Ricote *et al.*, *J. Mater. Chem. A*, 2014, **2**, 16107–16115.

The conductivity values at 600 °C of SSR-Ni and SSRS in Table 4 of the manuscript are incorrect. The correct values are included in the revised table below.

Table 4 Conductivity in (mS cm^{-1}) of BZY10 in moist reducing atmosphere at 500 and 600 °C from this work and literature

Synthesis	Sintering	Total conductivity 600 °C	Total conductivity 500 °C	Atmosphere	Ref.
Solid state reaction	5 h 1800 °C	1.8	—	H_2 , 1.7×10^3 Pa H_2O	6
Solid state reaction	30 h 1715 °C	0.8	—	4% H_2 , moist	40
Flash combustion	1500 °C	2.2	—	N_2 , 3% H_2O	41
Pechini process	10 h 1600 °C	0.8	0.55	N_2 , 20.65 h Pa H_2O	42
Solid state reaction	1700 °C	—	0.55	5% H_2 , moist	30
Solid state reaction	10 h 1750 °C	~6	~4	H_2 , 1.9 kPa H_2O	43
SPS	5 min 1700 °C	2.32	1.4	5% H_2 , 0.03 atm H_2O	This work
HT	2200 °C	3.43	1.7	5% H_2 , 0.03 atm H_2O	This work
SSR-Ni	12 h 1600 °C	2.7	1.1	5% H_2 , 0.03 atm H_2O	This work
SSRS	5 h 1535 °C	3.0	1.6	5% H_2 , 0.03 atm H_2O	This work

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

^aColorado Fuel Cell Center, Mechanical Engineering Dept, 1500 Illinois Street, Golden, CO 80401, USA. E-mail: sricote@mines.edu; Tel: +1 303 384 2091

^bDepartment of Energy Conversion and Storage, Danish Technical University, Frederiksborgvej 399, 4000 Roskilde, Denmark

^cCoorstek Inc., 600 9th Street, Golden, CO 80401, USA

