

Accepted Manuscript

Syngas production in high performing tubular solid oxide cells by using high-temperature H₂O/CO₂ co-electrolysis

Seong-Bin Yu, Seung-Ho Lee, Muhammad Taqi Mehran, Jong-Eun Hong, Jong-Won Lee, Seung-Bok Lee, Seok-Joo Park, Rak-Hyun Song, Joon-Hyung Shim, Yong-Gun Shul, Tak-Hyoung Lim

PII: S1385-8947(17)31825-9
DOI: <https://doi.org/10.1016/j.cej.2017.10.110>
Reference: CEJ 17894

To appear in: *Chemical Engineering Journal*

Received Date: 18 July 2017
Revised Date: 16 October 2017
Accepted Date: 18 October 2017

Please cite this article as: S-B. Yu, S-H. Lee, M.T. Mehran, J-E. Hong, J-W. Lee, S-B. Lee, S-J. Park, R-H. Song, J-H. Shim, Y-G. Shul, T-H. Lim, Syngas production in high performing tubular solid oxide cells by using high-temperature H₂O/CO₂ co-electrolysis, *Chemical Engineering Journal* (2017), doi: <https://doi.org/10.1016/j.cej.2017.10.110>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**Syngas production in high performing tubular solid oxide cells by using
high-temperature H₂O/CO₂ co-electrolysis**

Seong-Bin Yu^{a,b,#}, Seung-Ho Lee^{a,c,#}, Muhammad Taqi Mehran^{a,d}, Jong-Eun Hong^a, Jong-Won Lee^{a,d},
Seung-Bok Lee^{a,d}, Seok-Joo Park^a, Rak-Hyun Song^{a,d}, Joon-Hyung Shim^b,
Yong-Gun Shul^c and Tak-Hyoung Lim^{a,d,*}

^a Fuel Cell Research Laboratory, Korea Institute of Energy Research (KIER),
152 Gajeong-ro, Yuseong-gu, Daejeon 34129, Republic of Korea

^b Department of Mechanical Engineering, Korea University, Anam-dong, Seongbuk-gu, Seoul 136-
713, Republic of Korea

^c Department of Chemical and Biomolecular Engineering, Yonsei University, Sinchon-dong,
Seodaemun-gu, Seoul, Republic of Korea

^d Department of Advanced Energy and Technology, Korea University of Science and Technology
(UST), 217 Gajeong-ro Yuseong-gu, 34113, Daejeon, Republic of Korea

Equally contributing authors

* Corresponding Author

Tel.: +82-42-860-3608, Fax.: +82-42-860-3297

Email: ddak@kier.re.kr (T. -H. Lim)

Download English Version:

<https://daneshyari.com/en/article/6580774>

Download Persian Version:

<https://daneshyari.com/article/6580774>

[Daneshyari.com](https://daneshyari.com)