

Accepted Manuscript

Title: Effect of Mass Transfer and Kinetics in Ordered Cu-Mesostructures for Electrochemical CO₂ Reduction

Authors: Hakhyeon Song, Mintaek Im, Jun Tae Song, Jung-Ae Lim, Beom-Sik Kim, Youngkook Kwo, Sangwoo Ryu, Jihun Oh



PII: S0926-3373(18)30278-9
DOI: <https://doi.org/10.1016/j.apcatb.2018.03.071>
Reference: APCATB 16529

To appear in: *Applied Catalysis B: Environmental*

Received date: 12-10-2017
Revised date: 17-10-2017
Accepted date: 21-3-2018

Please cite this article as: Song H, Im M, Song JT, Lim J-A, Kim B-S, Kwo Y, Ryu S, Oh J, Effect of Mass Transfer and Kinetics in Ordered Cu-Mesostructures for Electrochemical CO₂ Reduction, *Applied Catalysis B, Environmental* (2010), <https://doi.org/10.1016/j.apcatb.2018.03.071>

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.

Effect of Mass Transfer and Kinetics in Ordered Cu-Mesostructures for Electrochemical CO₂ Reduction

Hakhyeon Song^{†,1}, Mintaek Im^{†,2}, Jun Tae Song^{1,3}, Jung-Ae Lim², Beom-Sik Kim^{2,4}, Youngkook Kwon^{*,2,4}, Sangwoo Ryu^{*,1} and Jihun Oh^{*,1,3}

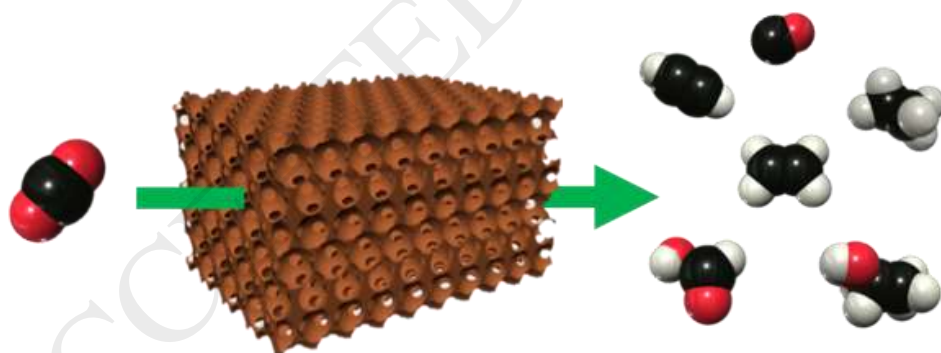
¹Graduate School of Energy, Environment, Water, and Sustainability (EEWS), Korea Advanced Institute of Science and Technology (KAIST), Daejeon 34141, Republic of Korea

²Carbon Resources Institute, Korea Research Institute of Chemical Technology, Daejeon 34114, Republic of Korea

³KAIST Institute for NanoCentury, Korea Advanced Institute of Science and Technology (KAIST), Daejeon 34141, Republic of Korea

⁴Advanced Materials and Chemical Engineering, University of Science & Technology, Daejeon 34113, Republic of Korea

Graphical Abstract



Research Highlights

- Ordered Cu-mesostructures for electrochemical CO₂ reduction.
- Mass transfer, kinetics and mechanisms of CO₂ reduction are suggested.
- Mesoporous-dependent C₁ and C₂ products formation.

Download English Version:

<https://daneshyari.com/en/article/6498396>

Download Persian Version:

<https://daneshyari.com/article/6498396>

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