

Accepted Manuscript

Title: Chemical transformation of iron alkoxide nanosheets to FeOOH nanoparticles for highly active and stable oxygen evolution electrocatalysts

Authors: Jooyoung Lee, Hoyoung Lee, Byungkwon Lim



PII: S1226-086X(17)30486-0
DOI: <http://dx.doi.org/10.1016/j.jiec.2017.09.013>
Reference: JIEC 3616

To appear in:

Received date: 13-6-2017
Revised date: 21-8-2017
Accepted date: 7-9-2017

Please cite this article as: Jooyoung Lee, Hoyoung Lee, Byungkwon Lim, Chemical transformation of iron alkoxide nanosheets to FeOOH nanoparticles for highly active and stable oxygen evolution electrocatalysts, Journal of Industrial and Engineering Chemistry <http://dx.doi.org/10.1016/j.jiec.2017.09.013>

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.

Revised MS# JIEC-D-17-01483

Chemical transformation of iron alkoxide nanosheets to FeOOH nanoparticles for highly active and stable oxygen evolution electrocatalysts

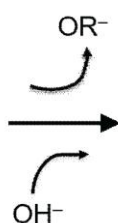
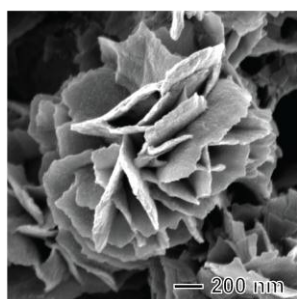
Jooyoung Lee, Hoyoung Lee, Byungkwon Lim*

School of Advanced Materials Science and Engineering, Sungkyunkwan University (SKKU), Suwon 16419, Korea

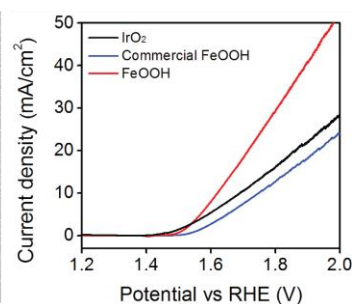
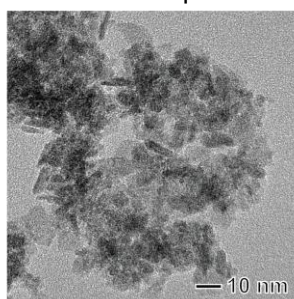
*Corresponding author. E-mail address: blim@skku.edu (B. Lim)

Graphical abstract

Iron alkoxide nanosheets



FeOOH nanoparticles



Highlights

- We developed a simple chemical transformation method to produce small FeOOH nanoparticles.
- These FeOOH nanoparticles exhibited high electrocatalytic activity for oxygen evolution reaction.
- These FeOOH nanoparticles also showed excellent stability in extremely high pH conditions.

Download English Version:

<https://daneshyari.com/en/article/6667094>

Download Persian Version:

<https://daneshyari.com/article/6667094>

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