Accepted Manuscript

Title: New Understandings of Ethanol Oxidation Reaction Mechanism on Pd/C and Pd₂Ru/C Catalysts in Alkaline Direct Ethanol Fuel Cells

Authors: Junsong Guo, Rongrong Chen, Fu-Chun Zhu, Shi-Gang Sun, Hebe M. Villullas

PII: S0926-3373(17)31011-1

DOI: https://doi.org/10.1016/j.apcatb.2017.10.037

Reference: APCATB 16117

To appear in: Applied Catalysis B: Environmental

Received date: 7-5-2017 Revised date: 28-8-2017 Accepted date: 13-10-2017

Please cite this article as: Junsong Guo, Rongrong Chen, Fu-Chun Zhu, Shi-Gang Sun, Hebe M. Villullas, New Understandings of Ethanol Oxidation Reaction Mechanism on Pd/C and Pd2Ru/C Catalysts in Alkaline Direct Ethanol Fuel Cells, Applied Catalysis B, Environmental https://doi.org/10.1016/j.apcatb.2017.10.037

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.



ACCEPTED MANUSCRIPT

New Understandings of Ethanol Oxidation Reaction Mechanism on Pd/C and Pd₂Ru/C Catalysts in Alkaline Direct Ethanol Fuel Cells

Junsong Guo¹, Rongrong Chen^{1,2*}

Fu-Chun Zhu², Shi-Gang Sun³

Hebe M. Villullas^{4*}

¹Richard G. Lugar Center for Renewable Energy, Indiana University Purdue University Indianapolis, IN 46202, USA

²Department of Chemical Engineering, University of Toledo, Ohio 43606, USA

³State Key Laboratory of Physical Chemistry of Solid Surfaces, Department of Chemistry, College of Chemistry and Chemical Engineering, School of Energy Research, Xiamen University, Xiamen, 361005, China

⁴Universidade Estadual Paulista (UNESP), Instituto de Química, 14800-900 Araraquara (SP), Brazil

*Corresponding authors.

Rongrong Chen: Tel.: (419) 530-8080. E-mail address: Rongrong.Chen@UToledo.Edu

Hebe M. Villullas: +55 16 3301-9653. E-mail address: mercedes@iq.unesp.br

Download English Version:

https://daneshyari.com/en/article/6498796

Download Persian Version:

https://daneshyari.com/article/6498796

<u>Daneshyari.com</u>