

## Accepted Manuscript

Title: CO<sub>2</sub> Hydrogenation to Methanol on Pd-Cu Bimetallic Catalysts: H<sub>2</sub>/CO<sub>2</sub> Ratio Dependence and Surface Species

Authors: Xiao Jiang, Xiaoxing Wang, Xiaowa Nie, Naoto Koizumi, Xinwen Guo, Chunshan Song



PII: S0920-5861(18)30153-6  
DOI: <https://doi.org/10.1016/j.cattod.2018.02.055>  
Reference: CATTOD 11280

To appear in: *Catalysis Today*

Received date: 16-1-2018  
Revised date: 25-2-2018  
Accepted date: 28-2-2018

Please cite this article as: Xiao Jiang, Xiaoxing Wang, Xiaowa Nie, Naoto Koizumi, Xinwen Guo, Chunshan Song, CO<sub>2</sub> Hydrogenation to Methanol on Pd-Cu Bimetallic Catalysts: H<sub>2</sub>/CO<sub>2</sub> Ratio Dependence and Surface Species, *Catalysis Today* <https://doi.org/10.1016/j.cattod.2018.02.055>

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.

# CO<sub>2</sub> Hydrogenation to Methanol on Pd-Cu Bimetallic Catalysts: H<sub>2</sub>/CO<sub>2</sub> Ratio Dependence and Surface Species

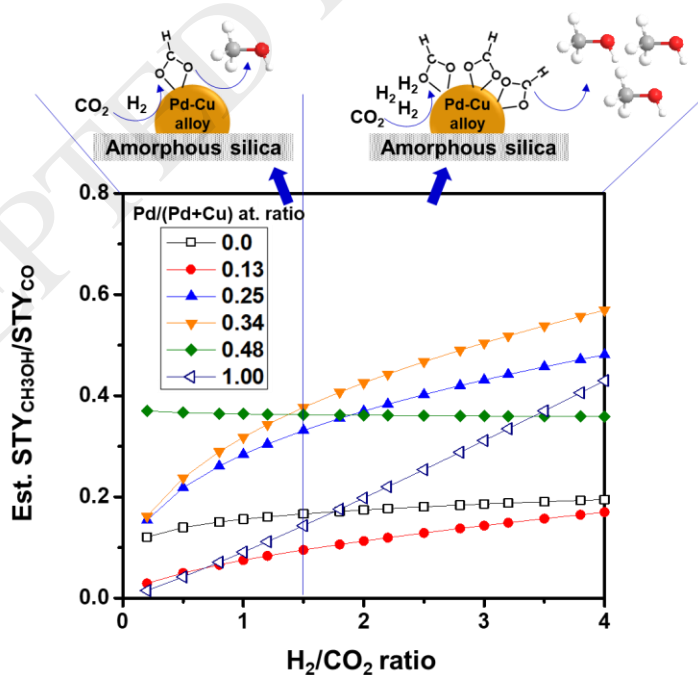
Xiao Jiang,<sup>a</sup> Xiaoxing Wang,<sup>a</sup> Xiaowa Nie,<sup>b</sup> Naoto Koizumi,<sup>a</sup> Xinwen Guo,<sup>b</sup> and Chunshan Song<sup>a,b\*</sup>

<sup>a</sup> Clean Fuels & Catalysis Program, EMS Energy Institute, PSU-DUT Joint Center for Energy Research, Departments of Energy and Mineral Engineering and of Chemical Engineering, The Pennsylvania State University, 209 Academic Projects Building, University Park, PA 16802, USA

<sup>b</sup> PSU-DUT Joint Center for Energy Research, School of Chemical Engineering, Dalian University of Technology, Dalian, 116024, China

\* Corresponding author. E-mail: csong@psu.edu

## Graphic Abstract



Download English Version:

<https://daneshyari.com/en/article/8964983>

Download Persian Version:

<https://daneshyari.com/article/8964983>

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