

Accepted Manuscript

Title: Effect of Ceria on Redox-Catalytic Property in Mild Condition: a Solvent-Free Route for Imine Synthesis at Low Temperature

Authors: Hepeng Zhang, Chen Wu, Wenbin Wang, Jun Bu, Fengtao Zhou, Baoliang Zhang, Qiuyu Zhang



PII: S0926-3373(18)30019-5
DOI: <https://doi.org/10.1016/j.apcatb.2018.01.012>
Reference: APCATB 16328

To appear in: *Applied Catalysis B: Environmental*

Received date: 20-11-2017
Revised date: 4-1-2018
Accepted date: 5-1-2018

Please cite this article as: Hepeng Zhang, Chen Wu, Wenbin Wang, Jun Bu, Fengtao Zhou, Baoliang Zhang, Qiuyu Zhang, Effect of Ceria on Redox-Catalytic Property in Mild Condition: a Solvent-Free Route for Imine Synthesis at Low Temperature, *Applied Catalysis B, Environmental* <https://doi.org/10.1016/j.apcatb.2018.01.012>

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 Ceria on Redox-Catalytic Property in Mild Condition: a Solvent-Free Route for Imine Synthesis at Low Temperature

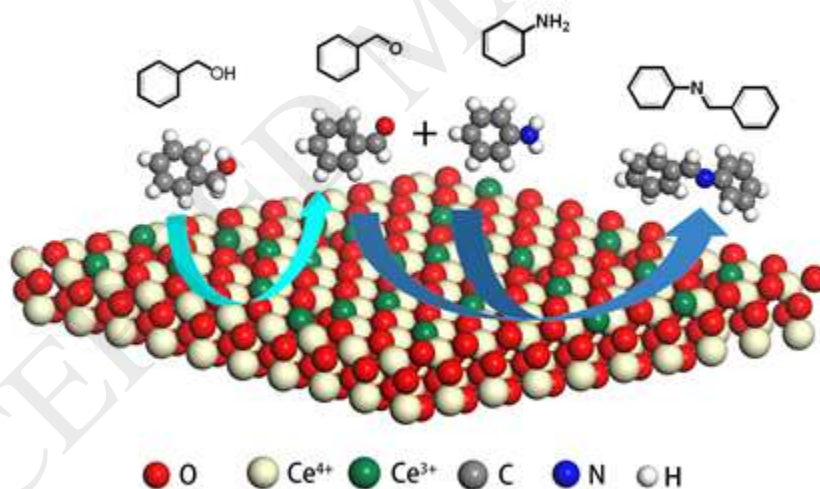
Hepeng Zhang,^{*,[a,b,c]} Chen Wu,^[b,c] Wenbin Wang,^[b] Jun Bu,^[b] Fengtao Zhou,^[b] Baoliang Zhang,^{*,[b]} and Qiuyu Zhang^[b]

^a Research & Development Institute of Northwestern Polytechnical University in Shenzhen, Shenzhen 518057, PR China. E-mail: zhanghepeng@nwpu.edu.cn

^b Department of Applied Chemistry, Northwestern Polytechnical University, Xi'an 710129, PR China

^c These authors contributed equally to this work

Graphical Abstract



Imines synthesis from alcohols and amines catalyzed by high-efficiency ceria in solvent-free, low temperature conditions.

Highlights:

- Low-energy consuming, environmental-friendly and easy scaling-up preparation of CeO₂;

Download English Version:

<https://daneshyari.com/en/article/6498555>

Download Persian Version:

<https://daneshyari.com/article/6498555>

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