

## Accepted Manuscript

Title: Photocatalytic organic transformations: simultaneous oxidation of aromatic alcohols and reduction of nitroarenes on CdLa<sub>2</sub>S<sub>4</sub> in one reaction system

Authors: Sujuan Zhang, Weixin Huang, Xianliang Fu, Xiuzhen Zheng, Sugang Meng, Xiangju Ye, Shifu Chen



PII: S0926-3373(18)30291-1  
DOI: <https://doi.org/10.1016/j.apcatb.2018.03.084>  
Reference: APCATB 16542

To appear in: *Applied Catalysis B: Environmental*

Received date: 28-1-2018  
Revised date: 3-3-2018  
Accepted date: 24-3-2018

Please cite this article as: Zhang S, Huang W, Fu X, Zheng X, Meng S, Ye X, Chen S, Photocatalytic organic transformations: simultaneous oxidation of aromatic alcohols and reduction of nitroarenes on CdLa<sub>2</sub>S<sub>4</sub> in one reaction system, *Applied Catalysis B, Environmental* (2018), <https://doi.org/10.1016/j.apcatb.2018.03.084>

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.

# Photocatalytic organic transformations: simultaneous oxidation of aromatic alcohols and reduction of nitroarenes on CdLa<sub>2</sub>S<sub>4</sub> in one reaction system

Sujuan Zhang,<sup>a,b</sup> Weixin Huang,<sup>a\*</sup> Xianliang Fu,<sup>b\*</sup> Xiuzhen Zheng,<sup>b</sup> Sugang Meng,<sup>b</sup> Xiangju Ye,<sup>c</sup>

Shifu Chen<sup>b,c\*</sup>

<sup>a</sup> Hefei National Laboratory for Physical Sciences at the Microscale, CAS Key Laboratory of Materials for Energy Conversion, Department of Chemical Physics, University of Science and Technology of China, Hefei, 230026, Anhui, China.

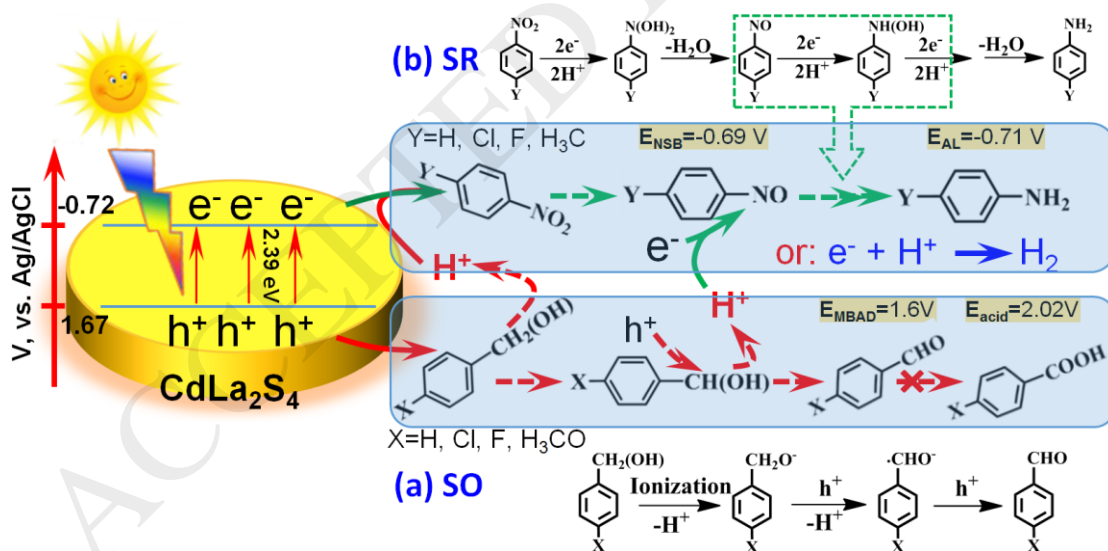
Email for W.X. Huang: huangwx@ustc.edu.cn

<sup>b</sup> College of Chemistry and Material Science, Huaibei Normal University, Huaibei, 235000, Anhui, China.

Email for X.L. Fu: fuxiliang@gmail.com

<sup>c</sup> Department of Chemistry, Anhui Science and Technology University, Fengyang, 233100, Anhui, China.

Graphical Abstract



A novel visible-light-photocatalyst CdLa<sub>2</sub>S<sub>4</sub> was developed to couple the selective oxidation of aromatic alcohols and reduction of nitroarenes in one reaction system.

Research highlights

Download English Version:

<https://daneshyari.com/en/article/6498319>

Download Persian Version:

<https://daneshyari.com/article/6498319>

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