

## Accepted Manuscript

Title: Defects induced efficient overall water splitting on a carbon-based metal-free photocatalyst

Authors: Cheng Zhu, Mengmeng Zhu, Yue Sun, Yunjie Zhou, Hui Huang, Yeshayahu Lifshitz, Shuit-Tong Lee, Jun Zhong, Yang Liu, Zhenhui Kang



PII: S0926-3373(18)30503-4  
DOI: <https://doi.org/10.1016/j.apcatb.2018.05.071>  
Reference: APCATB 16725

To appear in: *Applied Catalysis B: Environmental*

Received date: 9-3-2018  
Revised date: 9-5-2018  
Accepted date: 24-5-2018

Please cite this article as: Zhu C, Zhu M, Sun Y, Zhou Y, Huang H, Lifshitz Y, Lee S-Tong, Zhong J, Liu Y, Kang Z, Defects induced efficient overall water splitting on a carbon-based metal-free photocatalyst, *Applied Catalysis B: Environmental* (2018), <https://doi.org/10.1016/j.apcatb.2018.05.071>

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.

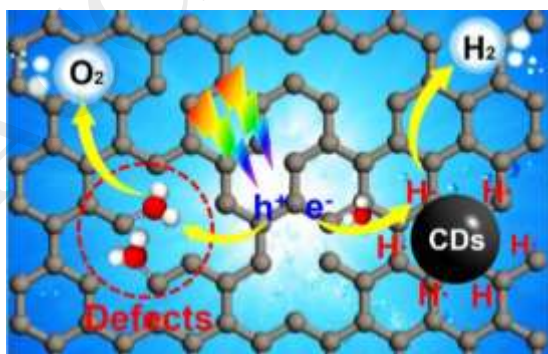
# Defects induced efficient overall water splitting on a carbon-based metal-free photocatalyst

Cheng Zhu<sup>a</sup>, Mengmeng Zhu<sup>a</sup>, Yue Sun<sup>a</sup>, Yunjie Zhou<sup>a</sup>, Hui Huang<sup>a</sup>, Yeshayahu Lifshitz<sup>a,b</sup>, Shuit-Tong Lee<sup>a</sup>, Jun Zhong<sup>a,\*</sup>, Yang Liu<sup>a,\*</sup>, and Zhenhui Kang<sup>a,\*</sup>

<sup>a</sup>Jiangsu Key Laboratory for Carbon-Based Functional Materials & Devices, Institute of Functional Nano & Soft Materials (FUNSOM), Soochow University, 199 Ren'ai Road, Suzhou, 215123, Jiangsu, PR China. jzhong@suda.edu.cn. yangl@suda.edu.cn. zhkang@suda.edu.cn.

<sup>b</sup>Department of Materials Science and Engineering, Technion, Israel Institute of Technology, Haifa 3200003, Israel.

## Graphical abstract



An efficient carbon-based metal-free photocatalyst with abundant carbon defects can split water under visible light irradiation.

Download English Version:

<https://daneshyari.com/en/article/6498098>

Download Persian Version:

<https://daneshyari.com/article/6498098>

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