Accepted Manuscript

Title: Molybdenum disulfide quantum dots decorated bismuth sulfide as a superior noble-metal-free photocatalyst for hydrogen evolution through harnessing a broad solar spectrum

Authors: W.P. Cathie Lee, Xin Ying Kong, Lling-Lling Tan, Meei Mei Gui, S. Sumathi, Siang-Piao Chai

PII: S0926-3373(18)30209-1

DOI: https://doi.org/10.1016/j.apcatb.2018.03.019

Reference: APCATB 16477

To appear in: Applied Catalysis B: Environmental

Received date: 27-12-2017 Revised date: 15-2-2018 Accepted date: 5-3-2018

Please cite this article as: Lee WPC, Kong XY, Tan L-L, Gui MM, Sumathi S, Chai S-P, Molybdenum disulfide quantum dots decorated bismuth sulfide as a superior noble-metal-free photocatalyst for hydrogen evolution through harnessing a broad solar spectrum, *Applied Catalysis B, Environmental* (2010), https://doi.org/10.1016/j.apcatb.2018.03.019

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

Molybdenum Disulfide Quantum Dots Decorated Bismuth Sulfide as a Superior Noble-Metal-Free Photocatalyst for Hydrogen Evolution through Harnessing a Broad Solar Spectrum

W. P. Cathie Lee, [a] Xin Ying Kong, [a] Lling-Lling Tan, [b] Meei Mei Gui, [c] S. Sumathi, [d] and Siang-Piao Chai*[a]

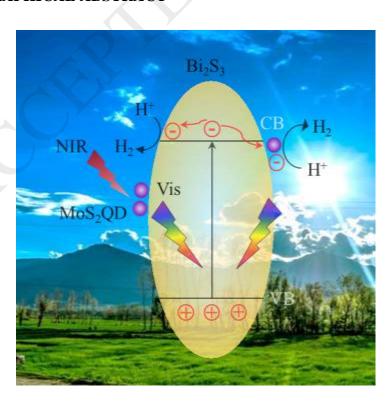
- [a] Multidisciplinary Platform of Advanced Engineering, Monash University, Jalan Lagoon Selatan, 47500 Bandar Sunway, Selangor, Malaysia
- [b] School of Engineering and Physical Sciences, Heriot-Watt University Malaysia, Jalan Venna P5/2, Precinct 5, 62200 Putrajaya, Malaysia
 - ^[c] Nanotechnology and Integrated Bioengineering Centre, University of Ulster, Belfast, BT37 OQB Northern Ireland
- [d] Faculty of Engineering and Green Technology, Universiti Tunku Abdul Rahman, Kampar Campus, Jalan Universiti, Bandar Barat, 31900 Kampar, Perak, Malaysia

*Corresponding author:

Tel: +603-55146234; Fax: +603-55146207

E-mail address: chai.siang.piao@monash.edu

GRAPHICAL ABSTRACT



Download English Version:

https://daneshyari.com/en/article/6498368

Download Persian Version:

https://daneshyari.com/article/6498368

<u>Daneshyari.com</u>