Accepted Manuscript

Title: Enhanced visible light-induced photocatalytic activity of surface-modified BiOBr with Pd nanoparticles

Authors: Xiangchao Meng, Zizhen Li, Jie Chen, Hongwei

Xie, Zisheng Zhang

PII: S0169-4332(17)32752-6

DOI: http://dx.doi.org/10.1016/j.apsusc.2017.09.103

Reference: APSUSC 37182

To appear in: APSUSC

Received date: 16-7-2017 Revised date: 8-9-2017 Accepted date: 13-9-2017

Please cite this article as: Xiangchao Meng, Zizhen Li, Jie Chen, Hongwei Xie, Zisheng Zhang, Enhanced visible light-induced photocatalytic activity of surface-modified BiOBr with Pd nanoparticles, Applied Surface Sciencehttp://dx.doi.org/10.1016/j.apsusc.2017.09.103

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

Enhanced visible light-induced photocatalytic activity of surface-modified BiOBr with Pd nanoparticles

Xiangchao Meng¹, Zizhen Li¹, Jie Chen¹, Hongwei Xie^{1,2}, Zisheng Zhang^{1,3,*}

- 1: Department of Chemical and Biological Engineering, University of Ottawa, Ottawa, Ontario, K1N 6N5, Canada
 - 2: Department of Software Engineering, Taiyuan University of Technology, Taiyuan, Shanxi, 030024, China
 - 3: College of Chemical Engineering, Qingdao University of Science & Technology, Qingdao, 266042, China *Corresponding Author: Zisheng Zhang: 1-613-562-5800 (6110)

Email addresses: xmeng086@uottawa.ca (X. Meng), zli125@uottawa.ca (Z. Li), jchen342@uottawa.ca (J. Chen), xiehongwei@tyut.edu.cn (H. Xie), zzhang@uottawa.ca (Z. Zhang)

HIGHLIGHTS:

- Pd nanoparticles were successfully photodeposited on BiOBr
- Pd-BiOBr composite exhibited excellent photocatalytic activities in phenol removal
- An enhanced mechanism of the catalytic activity over the composite was proposed.

Download English Version:

https://daneshyari.com/en/article/7836192

Download Persian Version:

https://daneshyari.com/article/7836192

<u>Daneshyari.com</u>