Accepted Manuscript

Title: Natural magnetic pyrrhotite as a high-Efficient persulfate activator for micropollutants degradation: Radicals identification and toxicity evaluation

Authors: Dehua Xia, Ran Yin, Jianliang Sun, Taicheng An, Guiying Li, Wanjun Wang, Huijun Zhao, Po Keung Wong

PII: \$0304-3894(17)30528-9

DOI: http://dx.doi.org/doi:10.1016/j.jhazmat.2017.07.029

Reference: HAZMAT 18721

To appear in: Journal of Hazardous Materials

Received date: 11-4-2017 Revised date: 27-6-2017 Accepted date: 12-7-2017

Please cite this article as: {http://dx.doi.org/

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

Natural Magnetic Pyrrhotite as a High-Efficient Persulfate Activator for Micropollutants Degradation: Radicals Identification and Toxicity Evaluation

Dehua Xia a,b,1 , Ran Yin c,1 , Jianliang Sun c , Taicheng An d,* , Guiying Li d , Huijun Zhao e,f , Po Keung Wong a,*

- ^a School of Life Sciences, The Chinese University of Hong Kong, Shatin, NT, Hong Kong SAR, China
- ^b School of Environmental Science and Engineering, Sun Yat-sen University, Guangzhou, 510275, China
- ^c Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong SAR, China
- ^d Institute of Environmental Health and Pollution Control, School of Environmental Science and Engineering, Guangdong University of Technology, Guangzhou 510006, Guangdong, China
- ^e Centre for Clean Environment and Energy, Griffith Scholl of Environment, Griffith University, Queensland 4222, Australia
- ^f Laboratory of Nanomaterials and Nanostructures, Institute of Solid State Physics, Chinese Academy of Sciences, Hefei 230031, Anhui, China

Corresponding authors

Tel: +86 20 2388 3536, Fax: +86 20 8529 1501, E-mail: antc99@gdut.edu.cn (T.C. An); Tel: +852 3943 6383, Fax: +852 2603 5767, E-mail: pkwong@cuhk.edu.hk (P.K. Wong).

¹D.X. and R.Y. contributed equally to this work.

Graphical Abstract

Download English Version:

https://daneshyari.com/en/article/4979232

Download Persian Version:

https://daneshyari.com/article/4979232

<u>Daneshyari.com</u>