Accepted Manuscript

Title: Synthesis of zincphthalocyanine-based conjugated microporous polymers with rigid-linker as novel and green heterogeneous photocatalysts

Authors: Lijun Cai, Yanwei Li, Yanhui Li, Hengguo Wang,

Yang Yu, Ying Liu, Qian Duan

PII: S0304-3894(18)30027-X

DOI: https://doi.org/10.1016/j.jhazmat.2018.01.027

Reference: HAZMAT 19131

To appear in: Journal of Hazardous Materials

Received date: 22-9-2017 Revised date: 7-1-2018 Accepted date: 12-1-2018

Please cite this article as: Cai L, Li Y, Li Y, Wang H, Yu Y, Liu Y, Duan Q, Synthesis of zincphthalocyanine-based conjugated microporous polymers with rigid-linker as novel and green heterogeneous photocatalysts, *Journal of Hazardous Materials* (2010), https://doi.org/10.1016/j.jhazmat.2018.01.027

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.



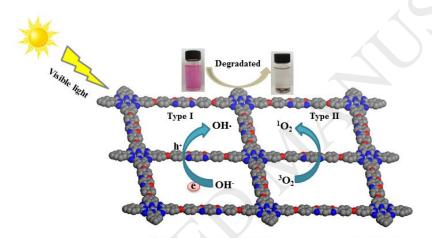
ACCEPTED MANUSCRIPT

Synthesis of zincphthalocyanine-based conjugated microporous polymers with rigid-linker as novel and green heterogeneous photocatalysts

Lijun Cai, Yanwei Li,* Yanhui Li, Hengguo Wang, Yang Yu, Ying Liu, Qian Duan*
School of Materials Science and Engineering, Changchun University of Science and Technology,
Changchun 130022, China

E-mail addresses: liyanwei@cust.edu.cn (Y.W. Li); duanqian88@hotmail.com (Q. Duan).

Graphical abstract



ZnPc-based CMP Heterogeneous Catalyst

Highlights

- Zincphthalocyanine-based conjugated microporous polymers with rigid-linker were synthesized for the first time.
- It is the first time for MPc-based CMPs used as heterogeneous photocatalysts for photodegradation of RhB to date.
- The benzobisoxazoles as bridge linker efficiently reduce the aggregation of ZnPc and enhance its photocatalytic activity.
- These findings provide a facile approach to prepare green and recyclable photocatalysts for dealing with dye sewage.

Download English Version:

https://daneshyari.com/en/article/6968920

Download Persian Version:

https://daneshyari.com/article/6968920

<u>Daneshyari.com</u>