

Accepted Manuscript

Title: Facile fabrication of hierarchical ZnO microstructures assisted with PAMPSA and enhancement of green emission

Author: Qiang Huang Tangxiang Cun Wenbin Zuo Jianping Liu



PII: S0169-4332(15)00264-0
DOI: <http://dx.doi.org/doi:10.1016/j.apsusc.2015.01.222>
Reference: APSUSC 29659

To appear in: *APSUSC*

Received date: 28-10-2014
Revised date: 18-1-2015
Accepted date: 28-1-2015

Please cite this article as: Q.H. Tangxiang Cun, W. Zuo, J. Liu, Facile fabrication of hierarchical ZnO microstructures assisted with PAMPSA and enhancement of green emission, *Applied Surface Science* (2015), <http://dx.doi.org/10.1016/j.apsusc.2015.01.222>

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.

Highlights

- We report a facile single-step way to prepare hierarchical flower-like ZnO microstructures.
- Water-soluble polymer PAMPSA was used as a soft template and stabilizer.
- Shapes and sizes of ZnO products could be controlled by varying the concentrations of PAMPSA.
- Incorporation of a trace of PAMPSA into ZnO was confirmed by FTIR and Raman spectra.
- Well-defined and -dispersed ZnO microstructures with uniform shapes and sizes were obtained, and their green photoluminescence was significantly enhanced.

Download English Version:

<https://daneshyari.com/en/article/5350651>

Download Persian Version:

<https://daneshyari.com/article/5350651>

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