Author's Accepted Manuscript

Recent progress in biosensors based on organicinorganic hybrid nanoflowers

Junlun Zhu, Meiqi Wen, Wei Wen, Dan Du, Xiuhua Zhang, Shengfu Wang, Yuehe Lin



 PII:
 S0956-5663(18)30667-5

 DOI:
 https://doi.org/10.1016/j.bios.2018.08.058

 Reference:
 BIOS10722

To appear in: Biosensors and Bioelectronic

Received date:28 June 2018Revised date:24 August 2018Accepted date:24 August 2018

Cite this article as: Junlun Zhu, Meiqi Wen, Wei Wen, Dan Du, Xiuhua Zhang, Shengfu Wang and Yuehe Lin, Recent progress in biosensors based on organicinorganic hybrid nanoflowers, *Biosensors and Bioelectronic*, https://doi.org/10.1016/j.bios.2018.08.058

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 galley proof before it is published in its final citable 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

Recent progress in biosensors based on organic-inorganic hybrid

nanoflowers

Junlun Zhu¹, Meiqi Wen¹, Wei Wen¹*, Dan Du², Xiuhua Zhang¹, Shengfu Wang¹*, Yuehe Lin²

¹ Hubei Collaborative Innovation Center for Advanced Organic Chemical Materials, Ministry of Education Key Laboratory for the Synthesis and Application of Organic Functional Molecules, College of Chemistry and Chemical Engineering, Hubei University, Wuhan 430062, PR China,

² School of Mechanical and Materials Engineering, Washington State University, Pullman, WA 99164, USA

wenwei@hubu.edu.cn;

wangsf@hubu.edu.cn.

*Corresponding author: Tel: +86-27-50865309; Fax: +86-27-88663043.

Abstract

Organic-inorganic hybrid nanoflowers (HNFs) are a class of flower-like hybrid materials self-assembled from metal ions and organic components, such as enzymes, antibodies, DNA and amino acids et al. Based on their properties of enhanced enzyme activity, stability, facile synthesis and excellent biocompatibility, HNFs enable them to be a highly versatile platform for latent applications in many realms, such as biological sensing, biomimetic catalyst, dye decolorization and support nanomaterials, etc. Compared with free enzymes, HNFs are potentially advantageous for biological Download English Version:

https://daneshyari.com/en/article/10134191

Download Persian Version:

https://daneshyari.com/article/10134191

Daneshyari.com