

Accepted Manuscript

Title: Molecular Imprinting Polymer with Polyoxometalate/Carbon Nitride Nanotubes For Electrochemical Recognition of Bilirubin

Authors: Mehmet Lütfi Yola, Ceren Göde, Necip Atar



PII: S0013-4686(17)31292-6
DOI: <http://dx.doi.org/doi:10.1016/j.electacta.2017.06.053>
Reference: EA 29691

To appear in: *Electrochimica Acta*

Received date: 26-4-2017
Revised date: 31-5-2017
Accepted date: 5-6-2017

Please cite this article as: Mehmet Lütfi Yola, Ceren Göde, Necip Atar, Molecular Imprinting Polymer with Polyoxometalate/Carbon Nitride Nanotubes For Electrochemical Recognition of Bilirubin, *Electrochimica Acta* <http://dx.doi.org/10.1016/j.electacta.2017.06.053>

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.

Molecular Imprinting Polymer with Polyoxometalate/Carbon Nitride Nanotubes For Electrochemical Recognition of Bilirubin

Mehmet Lütfi Yola^{a,*}, Ceren Göde^b, Necip Atar^c

^aIskenderun Technical University, Faculty of Engineering and Natural Sciences, Department of Biomedical Engineering, Hatay, Turkey

^bPamukkale University, School of Denizli Vocational Technology, Program of Machine, Denizli, Turkey

^cPamukkale University, Faculty of Engineering, Department of Chemical Engineering, Denizli, Turkey

*To whom correspondence should be addressed:

Dr. Mehmet Lütfi YOLA

Iskenderun Technical University

Tel.: +903266135600 ; Fax: +903266135613

E-mail: mehmetryola@gmail.com

Research highlight

- Bilirubin-imprinted sensor is developed for the sensitive detection of bilirubin
- The prepared based on nanocomposite were characterized by several methods
- Bilirubin-imprinted sensor offers the important advantages
- Bilirubin-imprinted sensor is preferred to the other methods for analysis

ABSTRACT

In this work, a new molecular imprinted sensor based on polyoxometalate ($H_3PW_{12}O_{40}$, POM) functionalized carbon nitride nanotubes (C_3N_4 NTs) nanocomposite was prepared for bilirubin (BR) analysis. The structures of prepared surfaces based on the nanocomposite were characterized by scanning electron microscopy (SEM), transmission

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات