

# Author's Accepted Manuscript

Simple and label-free liquid crystal-based sensor for detecting trypsin coupled to the interaction between cationic surfactant and BSA

Yi Wang, Lele Zhou, Qi Kang, Li Yu



PII: S0039-9140(18)30191-7  
DOI: <https://doi.org/10.1016/j.talanta.2018.02.082>  
Reference: TAL18401

To appear in: *Talanta*

Received date: 20 November 2017  
Revised date: 16 February 2018  
Accepted date: 20 February 2018

Cite this article as: Yi Wang, Lele Zhou, Qi Kang and Li Yu, Simple and label-free liquid crystal-based sensor for detecting trypsin coupled to the interaction between cationic surfactant and BSA, *Talanta*, <https://doi.org/10.1016/j.talanta.2018.02.082>

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.

# Simple and label-free liquid crystal-based sensor for detecting trypsin coupled to the interaction between cationic surfactant and BSA

Yi Wang<sup>a, #</sup>, Lele Zhou<sup>a, b, #</sup>, Qi Kang<sup>c</sup>, and Li Yu<sup>a, \*</sup>

<sup>a</sup> *Key Laboratory of Colloid and Interface Chemistry, Shandong University, Ministry of Education, Jinan 250100, PR China.*

<sup>b</sup> *School of Chemistry and Chemical Engineering, Qufu Normal University, Qufu 273165, PR China.*

<sup>c</sup> *College of Chemistry, Chemical Engineering and Materials Science, Shandong Normal University, Jinan 250014, PR China.*

\* Corresponding author. E-mail address: ylmlt@sdu.edu.cn

# Both Yi Wang and Lele Zhou contributed equally.

## Abstract

Trypsin plays a central role in catalyzing the hydrolysis of peptide bonds, so a technique with simple operation is needed to monitor the activity of trypsin. Here a simple and label-free sensor based on liquid crystals (LCs) was developed by

Download English Version:

<https://daneshyari.com/en/article/7676562>

Download Persian Version:

<https://daneshyari.com/article/7676562>

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