

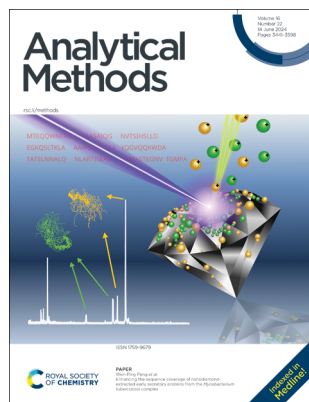
# Analytical Methods

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## IN THIS ISSUE

ISSN 1759-9679 CODEN AMNECT 16(22) 3441–3598 (2024)



### Cover

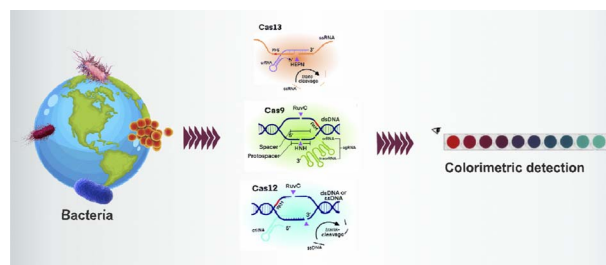
See Wen-Ping Peng *et al.*, pp. 3464–3474. Image reproduced by permission of Wen-Ping Peng from *Anal. Methods*, 2024, 16, 3464.

## CRITICAL REVIEW

3448

### CRISPR/Cas-based colorimetric biosensors: a promising tool for the diagnosis of bacterial foodborne pathogens in food products

Ebraheem Abdu Musad Saleh,\* Eyhab Ali, Giyazova Malika Muxamadovna, Asmaa F. Kassem, Irwanjot Kaur, Abhinav Kumar, Hijran Sanaan Jabbar, Enas R. Alwaily, Ahmed Elawady and Alaa A. Omran

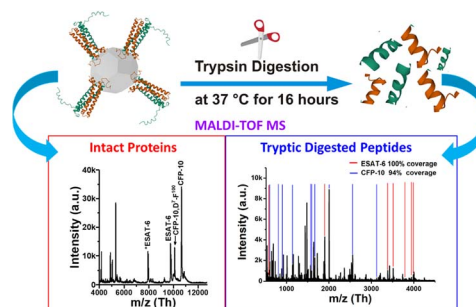


## PAPERS

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### Enhancing the sequence coverage of nanodiamond-extracted early secretory proteins from the *Mycobacterium tuberculosis* complex

Po-Chi Soo, Ching-Chieh Lee, Meng-Fu Shie, Avinash A. Patil, Mhikee Janella N. Descanzo, Ya-Ching Chin, Hsi-An Chen, Yu-Tze Horng, Chih-Bin Lin, Jen-Jyh Lee, Cheng-Kang Chiang and Wen-Ping Peng\*



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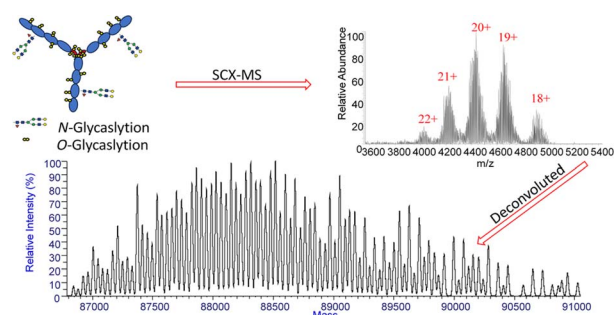


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3475

## Strong cation-exchange combined with mass spectrometry reveals the glycoform heterogeneity of sialylated glycoproteins

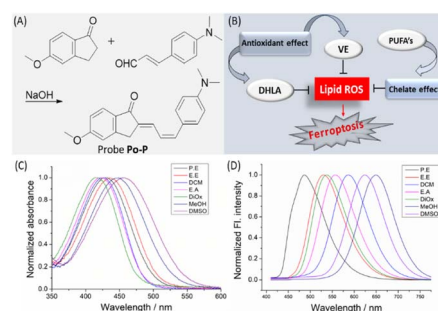
Wenhong Fan, Long Zhen,\* Xiang Zhu and Yong Zhou\*



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## A D- $\pi$ -A-type ratiometric fluorescent probe to detect polarity changes and inhibition effect during ferroptosis

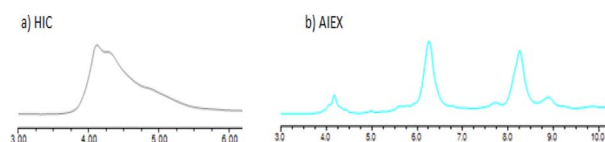
Abdul Hadi Mehmood, Jia Chang, Yan Wang, Shijing Li, Jiale Ma, Baoli Dong\* and Hong Liu\*



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## Impact of drug-linker on method selection for analytical characterization and purification of antibody–drug conjugates

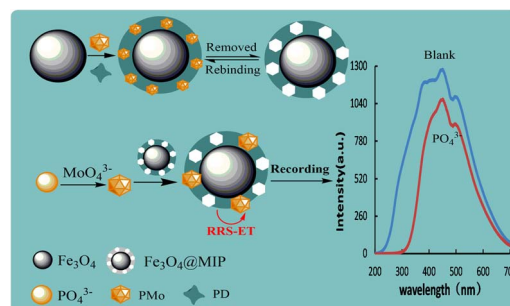
Ling C. Santora,\* Adrian D. Hobson, Lu Wang and Kan X. Wu



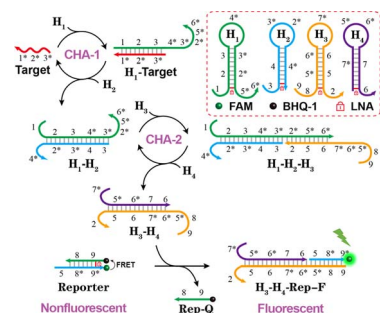
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## A new strategy for RRS-based determination of phosphate with a bifunctional Fe<sub>3</sub>O<sub>4</sub> magnetic nanoparticle surface molecularly imprinted polydopamine probe

Wenxin Wan, Jie Yang, Guiqing Wen, Aihui Liang and Zhiliang Jiang\*



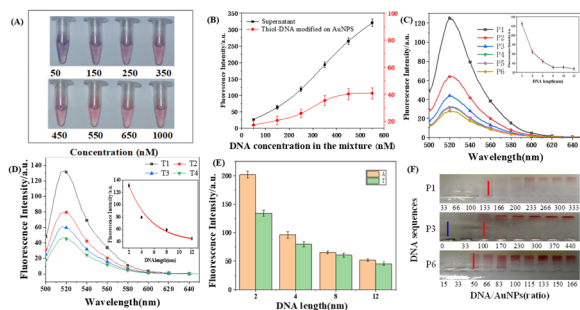
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## Two-layer cascaded catalytic hairpin assemblies based on locked nucleic acids for one-step and highly sensitive ctDNA detection

Kaiyue Tan, Longsheng Chen, Donglin Cao, Wei Xiao, Qian Lv and Lili Zou\*

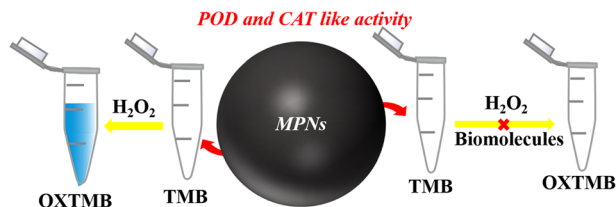
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## Development of a highly sensitive ampicillin sensor utilizing functionalized aptamers

Linjiao Ren, Shilin Ma, Chenlong Li, Diankang Wang, Pei Zhang, Lingli Wang, Zirui Qin\* and Liying Jiang\*

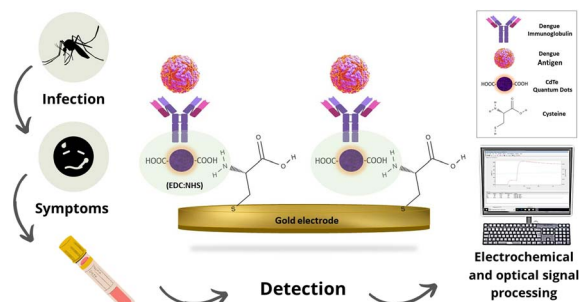
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## A metal–phenolic coordination framework nanozyme exhibits dual enzyme mimicking activity and its application is effective for colorimetric detection of biomolecules

Aham Emmanuel Chigozie, A. Ravikumar, Xiaofeng Yang, G. Tamilselvan, Yibin Deng,\* A. Arunjegan, Xuesong Li, Zhang Hu and Zhen Zhang\*

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## Development of optical and electrochemical immunodevices for dengue virus detection

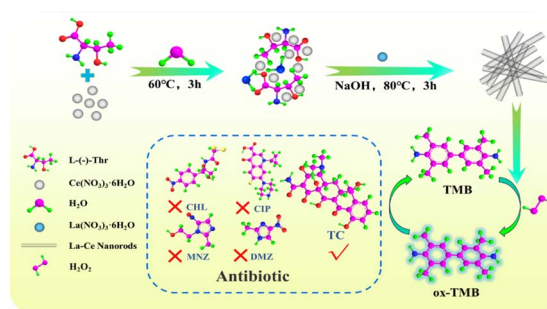
Milena Tereza Torres do Couto, Alberto Galdino da Silva Júnior, Karen Yasmim Pereira dos Santos Avelino, Laura Helena Vega Gonzales Gil, Marli Tenório Cordeiro, Maria Danielly Lima de Oliveira and César Augusto Souza de Andrade\*



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### Deep eutectic solvent-assisted synthesis of La–Ce hybrid nanorods for the colorimetric determination of tetracycline in foods

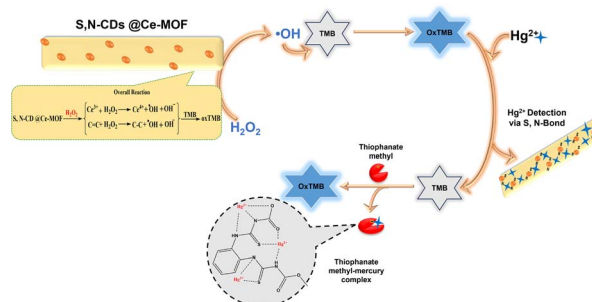
Kaigang An, Xin Li, Jia Chen,\* Shuang Zhang, Jing Xiao, Qing Wang and Hongdeng Qiu\*



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### A highly effective peroxidase-mimic nanozyme of S, N-carbon dot-decorated cerium organic framework-based colorimetric detection of Hg<sup>2+</sup> ion and thiophanate methyl

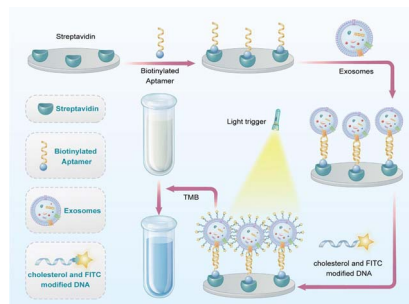
Rajakumari Jesuraj and Panneerselvam Perumal\*



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### Colorimetric aptasensor based on temporally controllable light-stimulated oxidase-mimicking fluorescein for the sensitive detection of exosomes in mild conditions

Li-e Zheng, Min Huang, Yiyang Liu, Qiufang Bao, Yuxiu Huang, Yuhong Ye, Mengmeng Liu\* and Pengming Sun\*



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### Fabrication and characterization of magnetic mesoporous nanoparticles for efficient determination and magnetic separation of sulfonamides in food samples

Mengmeng Zhang, Wei Wang, Lili Wu, Zulei Zhang,\* Hongmei Wang, Liping Guo and Ruobing Cheng

