

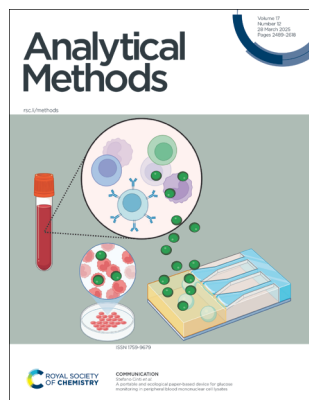
# Analytical Methods

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## IN THIS ISSUE

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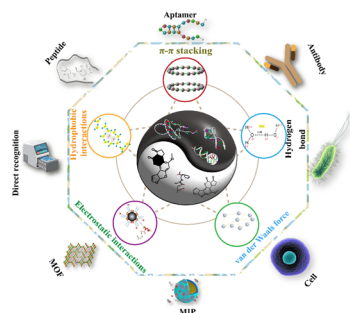
**Cover**  
See Stefano Cinti *et al.*,  
pp. 2529–2535. Image  
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Stefano Cinti from *Anal.*  
*Methods*, 2025, 17, 2529.

## CRITICAL REVIEWS

2496

### Rapid antibiotic biosensors based on multiple molecular recognition elements

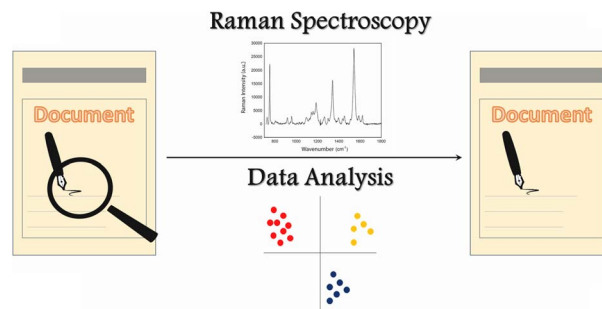
Feng Guo, Keren Chen, Jiaru Yang, Yifan Wu, Jiageng Cheng, Qian Yang, Longjiao Zhu, Jun Li\* and Wentao Xu\*



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### Raman spectroscopy for forensic pen ink investigation: a review

Rosane R. Souza, Lucas M. Duarte\* and Glaucio B. Ferreira\*



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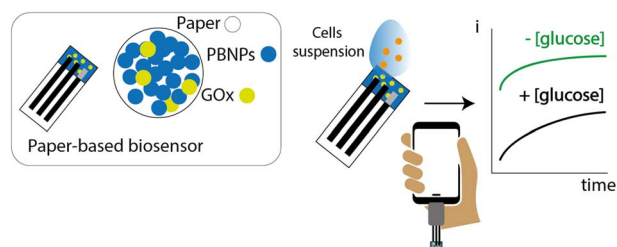
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## COMMUNICATION

2529

### A portable and ecological paper-based device for glucose monitoring in peripheral blood mononuclear cell lysates

Grazia Nota, Wanda Cimmino, Sima Singh, Ibrahim A. Darwish, Claudia La Rocca, Fortunata Carbone, Giuseppe Matarese and Stefano Cinti\*

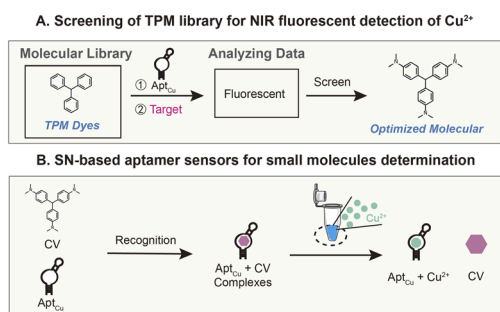


## PAPERS

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### Development of a novel label-free NIR aptasensor based on triphenylmethane dyes for rapid and sensitive detection of copper ions

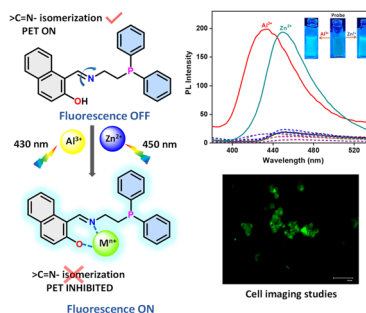
Junhao Hu, Xinxin Li, Teck-Peng Loh\* and Lingli Bu\*



2541

### An easily synthesizable naphthalene-based sensing platform for Al<sup>3+</sup> and Zn<sup>2+</sup> ions: theoretical insights and live cells imaging

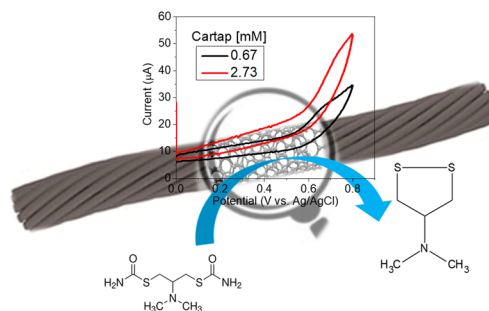
Jolly Kaushal,\* Sain Singh, Heena, Saakshi Saini and Partha Roy



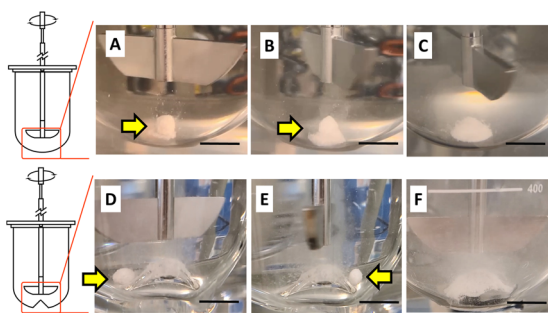
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### Structurally modified carbon nanotubes as twisted fibers towards electrochemical detection of environmentally hazardous cartap

Gul Tasam, Sheza Muqaddas, Abid Ali,\* Maryam Kaleem, Farah Kanwal, Munawar Iqbal, Norah Alwadai and Arif Nazir



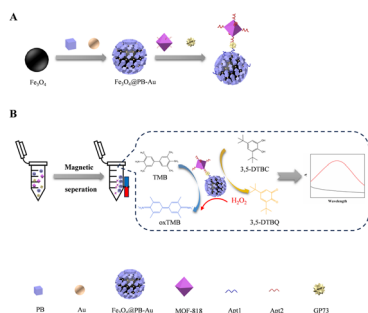
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### Impact of mechanical calibration variations on USP prednisone PVT with standard and apex vessels

Ethan J. Pozy and Li Tian\*

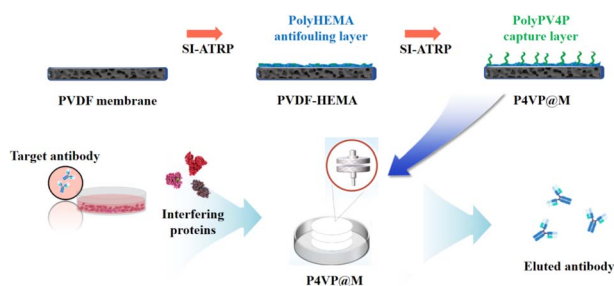
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### Sensitive detection of Golgi protein 73 by magnetic separation combined with a dual nanozyme MOF-818 and magnetic nucleus@bifunctional shell ( $\text{Fe}_3\text{O}_4@\text{PB-Au}$ ) cascade reaction catalytic amplification strategy

Wei Li, Xin Hu, Anyi Chen, Rongxin Wu and Chaorui Li\*

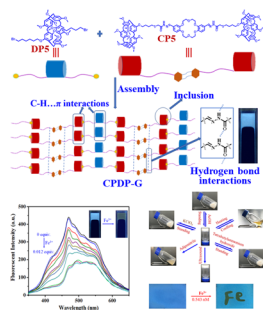
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### A high-density 4-vinylpyridine membrane for rapid purification of antibodies

Qingrong Wu, Bin Wang and LiYun Zhang\*

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### A supramolecular polypseudorotaxane material based on novel pillar[5]arene for ultrasensitive $\text{Fe}^{3+}$ reaction

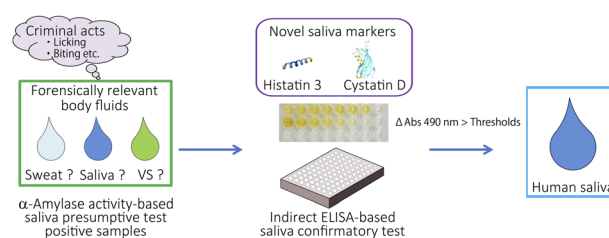
Wen-Bo Zhu,\* Xiao-Wei Zhang, Zhi-Jun Li, Li-Yuan Liu, Yu-Quan Zhang, Liang Zhang and Hui Wen



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## Indirect ELISA-based detection of histatin 3 and cystatin D for the forensic identification of human saliva

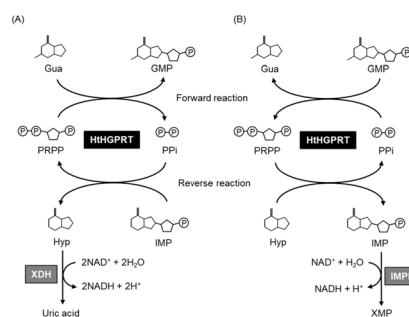
Jun Ohta,\* Mana Nagata, Nanaka Noda, Saki Minegishi, Hisako Saitoh and Koichi Sakurada



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## Enzyme cycling method using hypoxanthine-guanine phosphoribosyltransferase: a highly sensitive assay for pyrophosphate

Shigeru Ueda, Yoshiaki Yasutake, Tatsuya Hirata, Takehiko Sahara and Shin-ichi Sakasegawa\*



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## Exploration of a modified pretreatment process coupled with GC-MS/MS for determination of 18 phthalates in edible oils

Pei-Jin Wang, Long-Fei Lin, Yu-Jie Wu, Tian-Rong Guo, Quan-Wei Xiao and Wen-Lin Wu\*

