

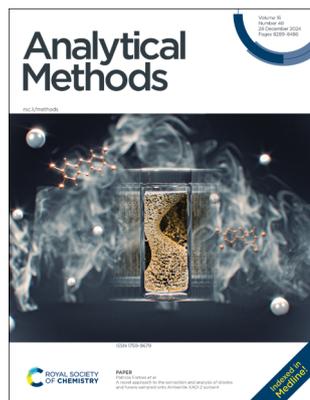
# Analytical Methods

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## IN THIS ISSUE

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### Cover

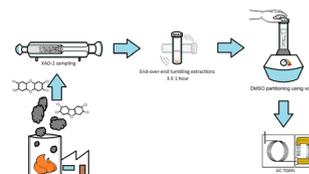
See Patricia Forbes *et al.*, pp. 8298–8306. Image reproduced by permission of Patricia Forbes, Reinardt Cromhout and Jean-François Focant from *Anal. Methods*, 2024, 16, 8298.

## PAPERS

8298

### A novel approach to the extraction and analysis of dioxins and furans sampled onto Amberlite XAD-2 sorbent

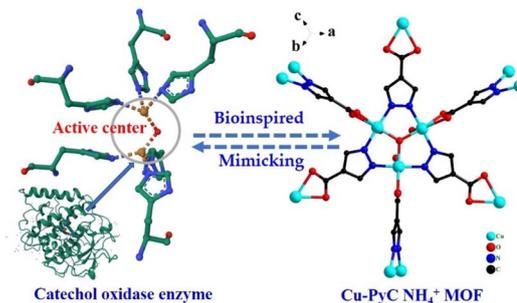
Reinardt Cromhout, Jean-François Focant and Patricia Forbes\*



8307

### A Cu-based metal–organic framework synthesized via a green method exhibits unique catecholase-like activity for epigallocatechin gallate detection in teas

Sivasankar Kulandaivel, Yu-Meng Wang, Sung-Fang Chen,\* Chia-Her Lin\* and Yi-Chun Yeh\*



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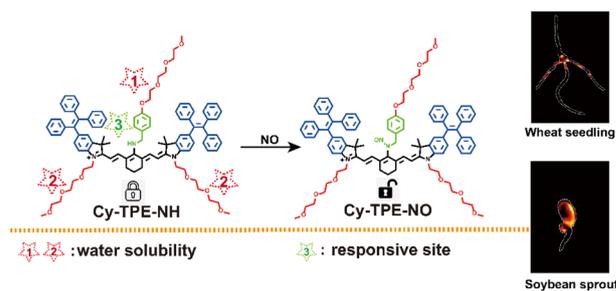
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Fundamental questions  
Elemental answers

8316

### A NIR-II fluorescence probe for tracking oxidative stress in plants induced by metal contaminants

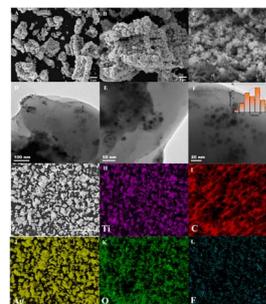
Gaowei Deng, Lihe Sun, Fang Zeng\* and Shuizhu Wu\*



8324

### Convenient *in situ* self-assembled formation of dual-functional Ag/MXene nanozymes for efficient chemiluminescence sensing

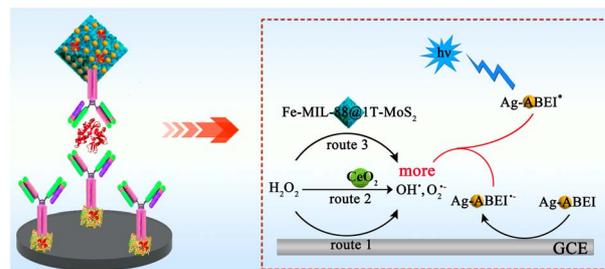
Xiangjuan Zheng, Zhiying Shi, Chun Han, Hongyi Mu, Shiyun Cheng and Xiluan Yan\*



8333

### Electrochemiluminescence immunosensor based on a novel heterostructured Fe-MIL-88@1T-MoS<sub>2</sub> dual-nanozyme with high peroxidase-like activity for the sensitive detection of NT-proBNP

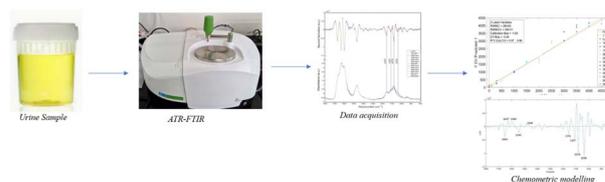
Xinya Jiang,\* Weidan Su, Wenbing Shi and Huijun Wang\*



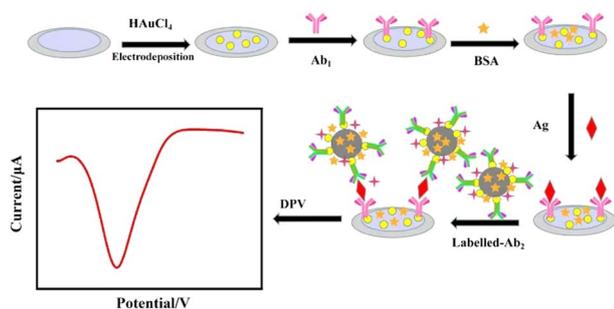
8341

### Simultaneous determination of glucose and albumin in human urine using attenuated total reflection Fourier-transform infrared spectroscopy

Keith Dias, Pukkaramai Koochaisakul, Thanaree Hainak, Thanyathorn Suksaard, Chamras Promptmas, Karin Jandeleit-Dahm\* and Bayden R. Wood\*



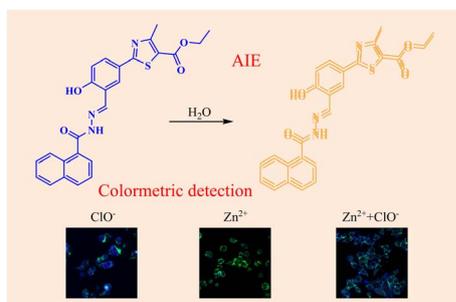
8352



### A sandwich electrochemical immunosensor based on polypyrrole microspheres for the detection of the cancer marker CA125

Yan Ma, Tingting Zhang and Yuzhong Zhang\*

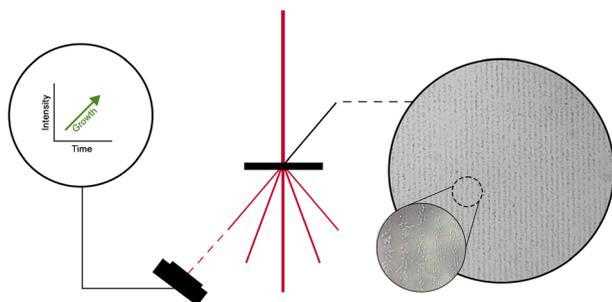
8358



### An AIE probe for simultaneous monitoring of endogenous and exogenous hypochlorite and Zn<sup>2+</sup> at dual channels in living cells

Na-Na Li, Ye-Jin Liang, Hai-Long Li, Ting-Ting Wei, Zhan-Bin Jin, Xing-Yu Xu, Hai-Xian Ren, Wan-Ying Lin, Zi-Ao Zong\* and Yao Zuo\*

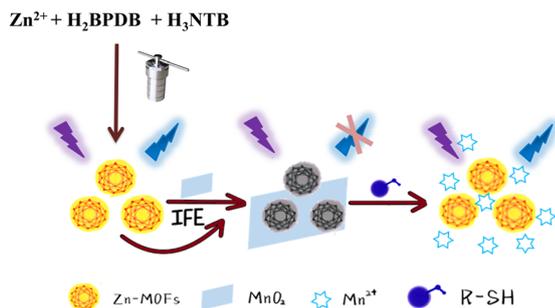
8366



### Low-cost, real-time detection of bacterial growth *via* diffraction-based sensing

Nicholas K. Kotoulas, Tomoyuki Sen and M. Cynthia Goh\*

8372



### Synthesis of a Zn-MOF fluorescent material for sensitive detection of biothiols *via* an inner filter effect with MnO<sub>2</sub> nanosheets

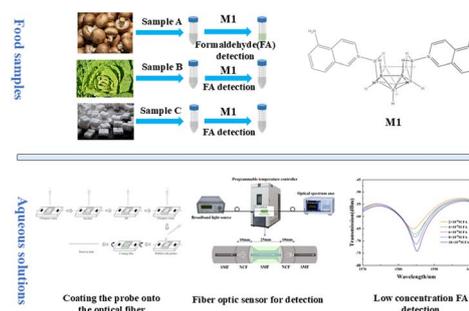
Jianwei Lin, Aizhu Lin, Limin Lai, Jing Chen, Jinghua Chen and Zhizhong Han\*



8380

### An optical fiber sensor based on a B<sub>10</sub>H<sub>14</sub> derivatives/PMMA film for measuring low concentration formaldehyde in aqueous solutions

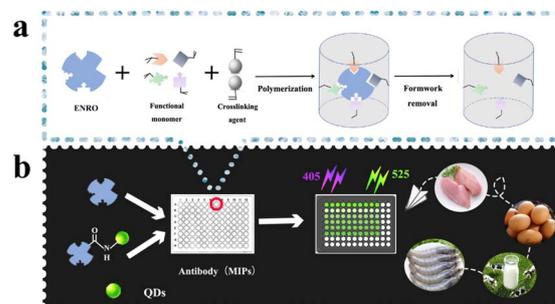
Zhuoxing Wu, Bolin Yu, Huien Gong, Yiquan Tang, Jiaxian Chen, Yingying Jian, Danmei Wei, Hongyun Meng and Chunhua Tan\*



8390

### Quantum dot-based biomimetic fluorescence immunoassays for enrofloxacin detection in animal-derived foods

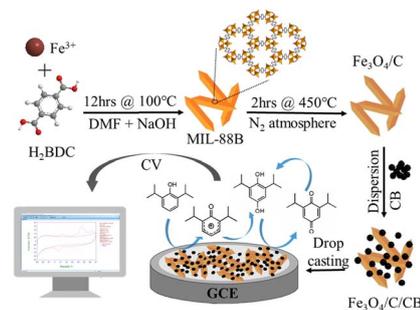
Gaoshuang Hu, Ziyang Liu, Yiqin Zhang, Tao Zhao, Zhuqing Xing, Shan Gao\* and Jianxiang Hao\*



8399

### Electrochemical sensors based on composites of porous Fe<sub>3</sub>O<sub>4</sub>/C and carbon black for sensitive and rapid detection of propofol

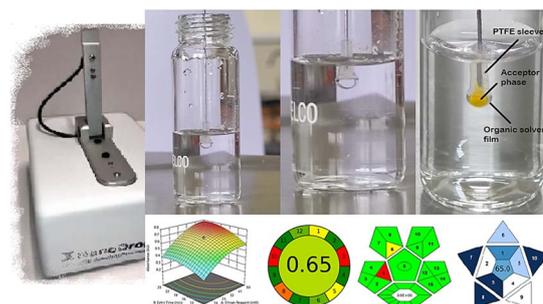
Shouhui Chen,\* Dan Zhou, Qinghao Xiong, Yinan Yang, Mingyang Zhang and Shoulin Chen



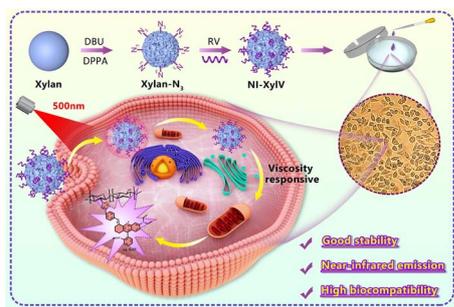
8408

### Embedded microdrops configuration for diffusion-based colorimetric reactions: a novel approach for thiol determination by the Ellman reaction

Archana Jain, Manju Gupta and Krishna K. Verma\*



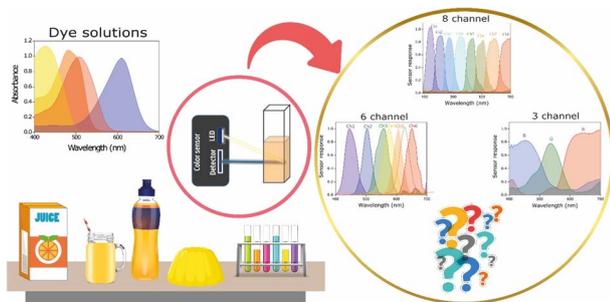
8419



### Xylan-based near-infrared fluorescent probes for monitoring viscosity abnormalities in living cells and zebrafish

Shen Li, Wenchan Dong, HongKun Yang, Pengfei Sun, Jinlan Luo, Fangong Kong\* and Keyin Liu\*

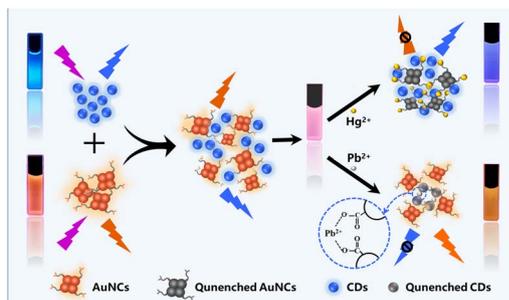
8427



### Evaluation of the performance of 3D printed (spectro)photometers based on multi-channel color sensors for colorimetric determinations

Caio C. S. Machado, Alegre N. S. Cadeado, Yugo S. N. da Mota, João F. S. Petrucci and Sidnei G. Silva\*

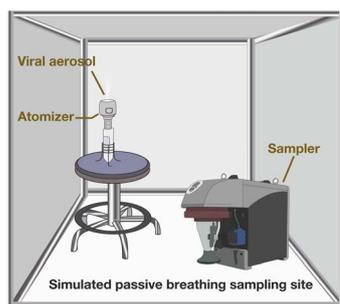
8437



### A dual-emission carbon dots/gold nanoclusters fluorescent probe for ratiometric and colorimetric detection of $Pb^{2+}$ and $Hg^{2+}$

Hongxin Cai, Yixin Shao, Lingling Yan,\* Hang Yu, Qiang Hu,\* Yongqiang Wang and Xiude Tu

8449



### Detection of severe acute respiratory syndrome coronavirus 2 in bioaerosols using digital droplet polymerase chain reaction and loop-mediated isothermal amplification

Xinyu Zhang, Yuhong Guan, Song Li, Yan Deng, Yanqi Wu and Hui Chen\*

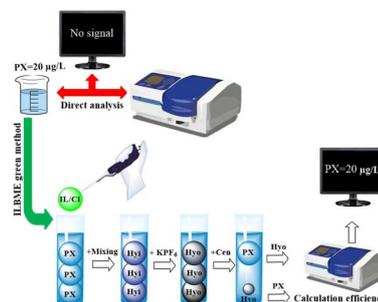


## PAPERS

8457

### A high-performance ionic liquid-based microextraction (ILBME) method for the trace determination of paroxetine as a pharmaceutical pollutant in environmental and biological samples

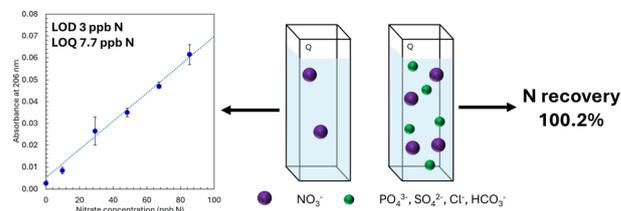
Mehdi Hosseini\*



8471

### Rapid low-level nitrate determination by UV spectroscopy in the presence of competing ions

S. E. Mackay,\* D. S. Eldridge and F. Malherbe



## RETRACTIONS

8482

### Retraction: Magnetic solid-phase extraction to preconcentrate ultra trace amounts of lead(II) using modified-carbon nanotubes decorated with NiFe<sub>2</sub>O<sub>4</sub> magnetic nanoparticles

Ali A. Ensafi,\* Sedigheh Rabiei, Behzad Rezaei and Ali R. Allafchian

8483

### Retraction: NiFe<sub>2</sub>O<sub>4</sub> nanoparticles decorated with MWCNTs as a selective and sensitive electrochemical sensor for the determination of epinephrine using differential pulse voltammetry

Ali A. Ensafi,\* F. Saeid, B. Rezaei and Ali R. Allafchian

