

IN THIS ISSUE

ISSN 1759-9679 CODEN AMNECT 16(48) 8289–8486 (2024)



Cover

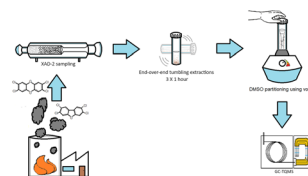
See Patricia Forbes *et al.*, pp. 8298–8306. Image reproduced by permission of Patricia Forbes, Reinardt Cromhout and Jean-François Focant from *Anal. Methods*, 2024, 16, 8298.

PAPERS

8298

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

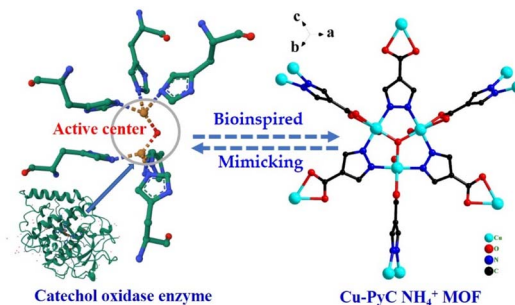
Reinardt Cromhout, Jean-François Focant and Patricia Forbes*



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*



ChemComm

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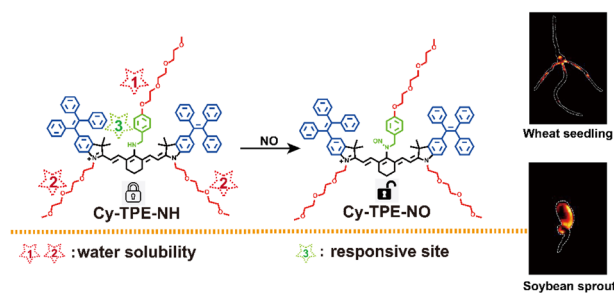
rsc.li/chemcomm

Fundamental questions
Elemental answers

8316

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

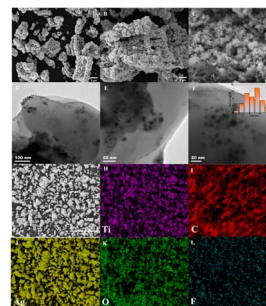
Gaowei Deng, Lihe Sun, Fang Zeng* and Shuizhu Wu*



8324

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

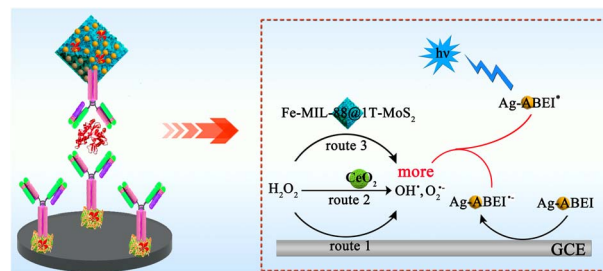
Xiangjuan Zheng, Zhiying Shi, Chun Han, Hongyi Mu, Shiyun Cheng and Xiluan Yan*



8333

Electrochemiluminescence immunosensor based on a novel heterostructured Fe-MIL-88@1T-MoS₂ dual-nanozyme with high peroxidase-like activity for the sensitive detection of NT-proBNP

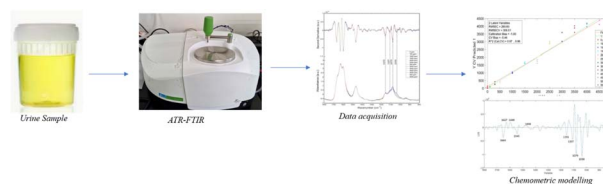
Xinya Jiang,* Weidan Su, Wenbing Shi and Huijun Wang*



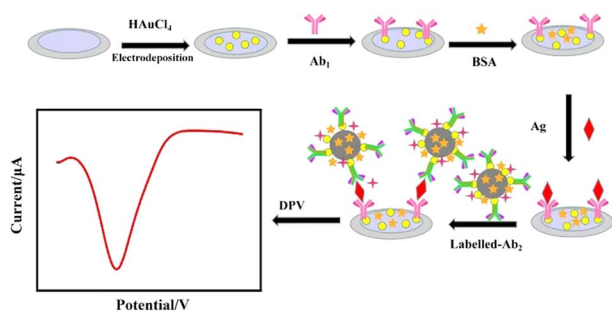
8341

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*



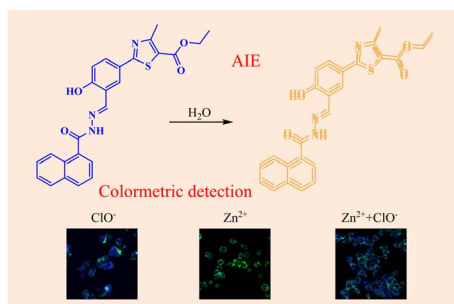
8352



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

Yan Ma, Tingting Zhang and Yuzhong Zhang*

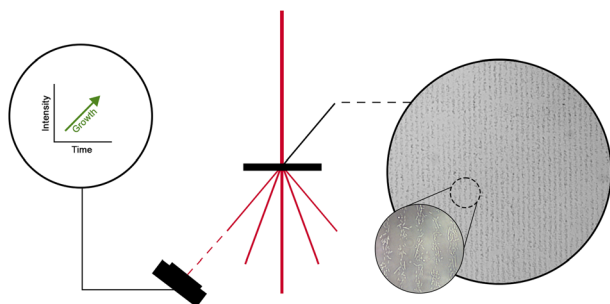
8358



An AIE probe for simultaneous monitoring of endogenous and exogenous hypochlorite and Zn²⁺ 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*

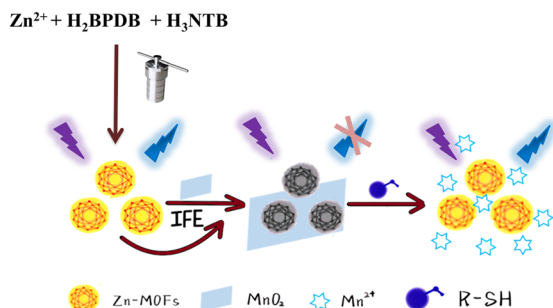
8366



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 MnO₂ nanosheets

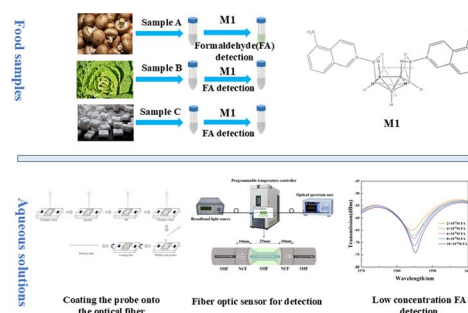
Jianwei Lin, Aizhu Lin, Limin Lai, Jing Chen, Jinghua Chen and Zhizhong Han*



8380

An optical fiber sensor based on a B₁₀H₁₄ derivatives/PMMA film for measuring low concentration formaldehyde in aqueous solutions

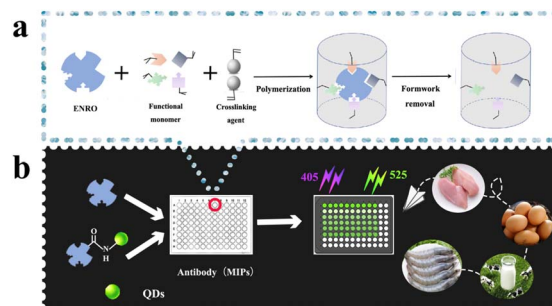
Zhuoxing Wu, Bolin Yu, Huien Gong, Yiquan Tang, Jiaxian Chen, Yingying Jian, Danmei Wei, Hongyun Meng and Chunhua Tan*



8390

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

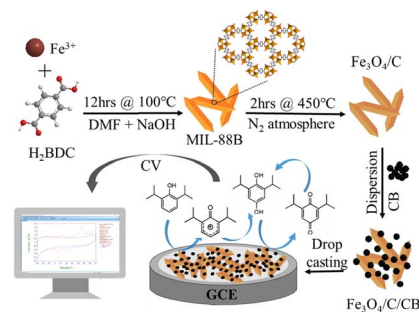
Gaoshuang Hu, Ziyang Liu, Yiqin Zhang, Tao Zhao, Zhuqing Xing, Shan Gao* and Jianxiang Hao*



8399

Electrochemical sensors based on composites of porous Fe₃O₄/C and carbon black for sensitive and rapid detection of propofol

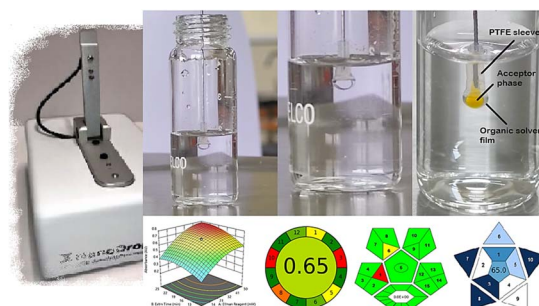
Shouhui Chen,* Dan Zhou, Qinghao Xiong, Yinan Yang, Mingyang Zhang and Shoulin Chen



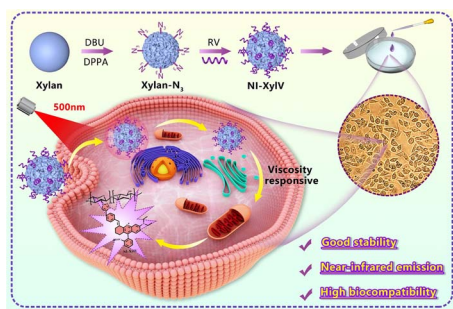
8408

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*



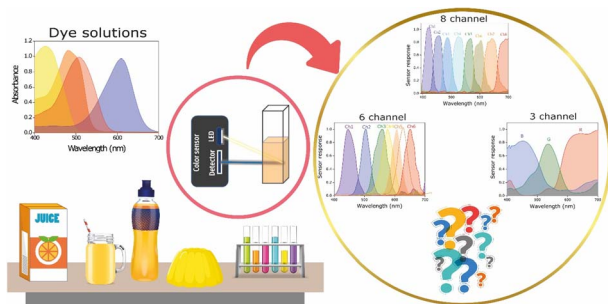
8419



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*

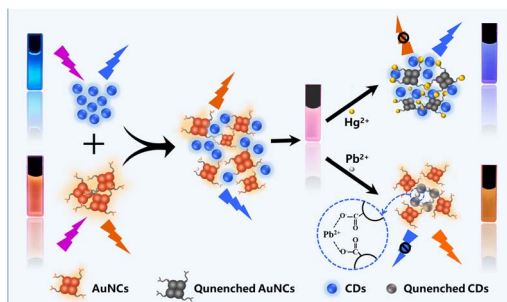
8427



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*

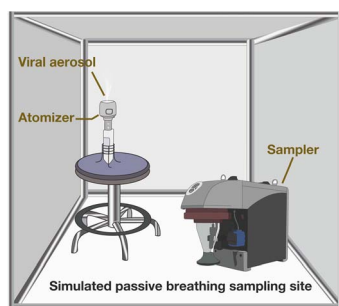
8437



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*

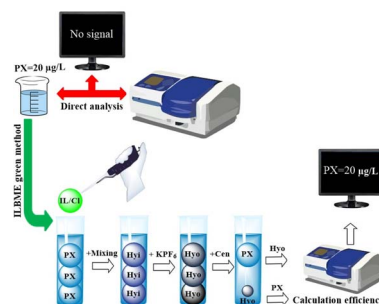


PAPERS

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

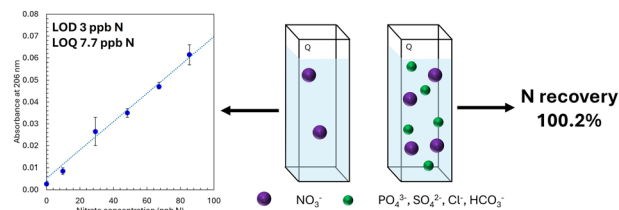
Mehdi Hosseini*



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 NiFe₂O₄ magnetic nanoparticles

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

8483

Retraction: NiFe₂O₄ 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

