

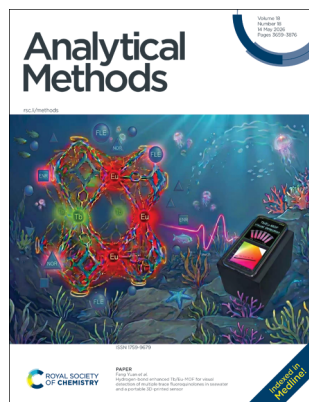
Analytical Methods

rsc.li/methods

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 1759-9679 CODEN AMNECT 18(18) 3659–3876 (2026)



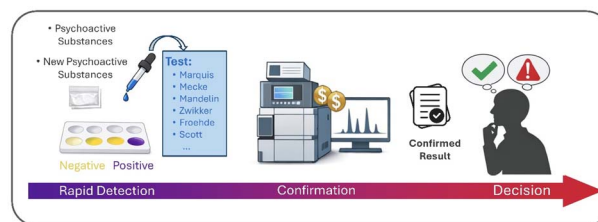
Cover
See Fang Yuan *et al.*,
pp. 3711–3723. Image
reproduced by permission of
Fang Yuan from *Anal.*
Methods, 2026, 18, 3711.
Image generated by Google
Gemini.

MINIREVIEWS

3667

Rapid detection of psychoactive and new psychoactive substances using qualitative color tests: chemistry, techniques, and applications

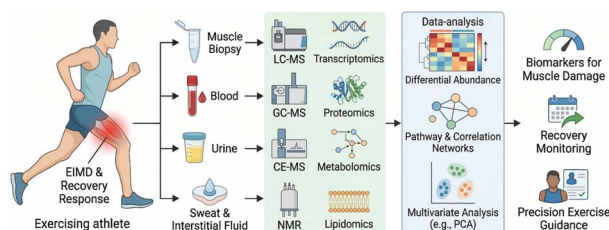
Fabio Antonio Cajamarca Suquila,*
Andrés Fernando Lancheros Sánchez* and
Julie Gesselle Benavides Melo



3693

Analytical strategies for multi-omics profiling of exercise-induced muscle damage and recovery: from sampling and separations to chemometric biomarker discovery

Le Xu, Yongrui Tang, Liufeng Shi and Lingyi Wei*



RSC Applied Polymers

GOLD
OPEN
ACCESS

The application of polymers,
both natural and synthetic

Interdisciplinary and open access

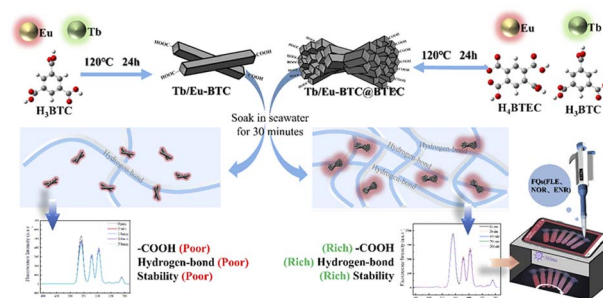
rsc.li/RSCApplPolym

Fundamental questions
Elemental answers

3711

Hydrogen-bond enhanced Tb/Eu-MOF for visual detection of multiple trace fluoroquinolones in seawater and a portable 3D-printed sensor

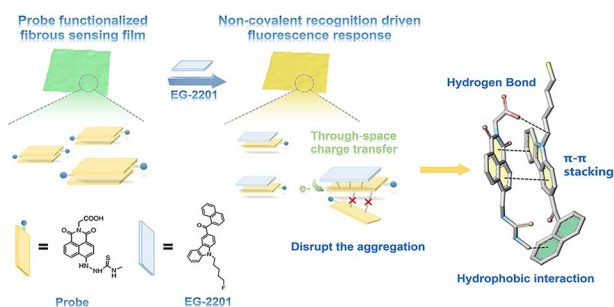
Zheng Chen, Shuaibo Song, Jiahao Lu, Simin Wang, Shuo Chen, Zhong Han and Fang Yuan*



3724

Synergistic non-covalent-recognition-enabled highly efficient through-space charge transfer for specific synthetic cannabinoid EG-2201 detection

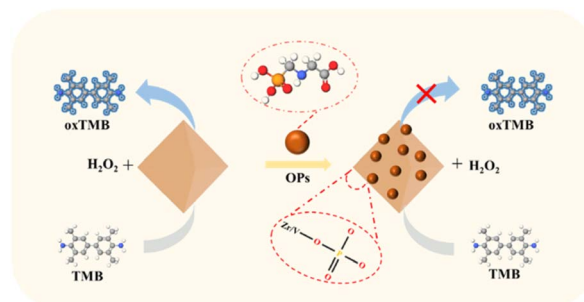
Liwei Tang, Chuanfang Zhao, Jiahao Dong, Turghun Muhammad,* Jijia Fan, Xincun Dou* and Yuan Liu*



3733

Zirconium and vanadium bimetallic organic framework nanozyme for bioenzyme-free colorimetric and photothermal dual-mode direct detection of organophosphorus pesticides

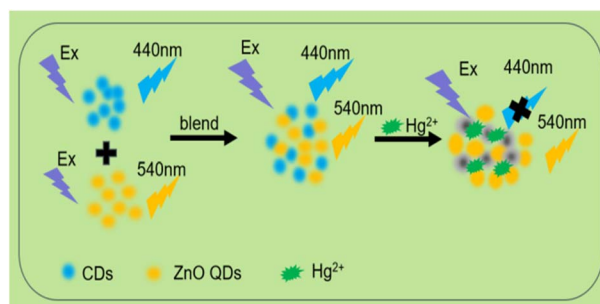
Chenxu Wang, Ningjing Du, Zhe You, Yinhui Yi and Gangbing Zhu*



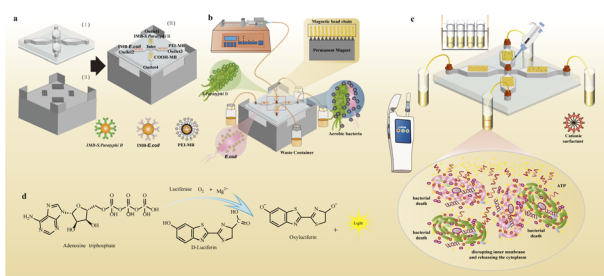
3744

Specific detection of Hg²⁺ based on a ZnO/C dual-quantum-dot system

Dongdong Li, Meijia Cui, Zhenjiang Li, Yao Lu,* Zhuwei Zhang, Wei Huang, Qiaoling Jing, Hao Cheng, Jun Feng and Wenyi Huang*



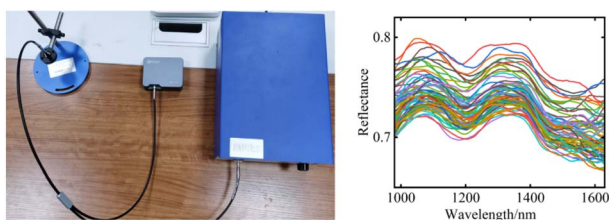
3752



A dot-array magnetic enrichment strategy for rapid, multiplexed detection of viable bacteria *via* ATP bioluminescence

Chunyan Zhang, Chengjian Chen, Weifei Zhang,*
 Jiayu Zheng, Tuya Wulan, Xuanlin Feng,
 Zhisheng Wu* and Nan Li*

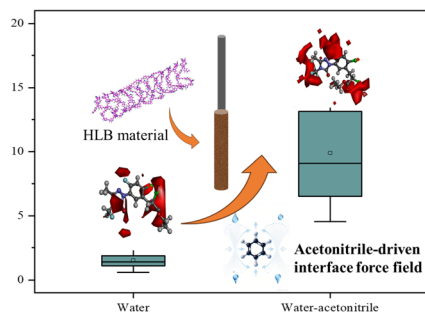
3765



Pet food brand discrimination *via* near-infrared spectroscopy combined with modified SPA-SI information enhancement

Chengbo Yang,* Wanqiang Pan, Song Zhang, Linxi Xu,
 Haofei Wang and Zhiliang Zhao

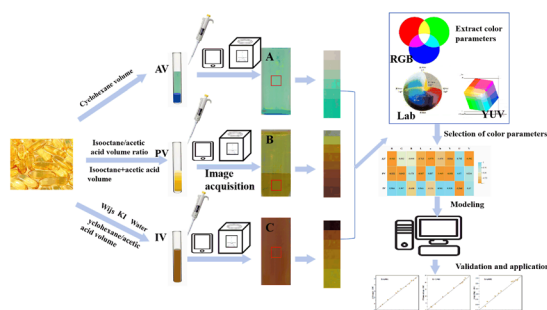
3772



Acetonitrile-driven interface force field reconstruction of HLB-SPME: insight into the pesticide adsorption mechanism based on energy lattice point models

Shuang Lei, Lulu Pu, Xinrong Chen, Chaoxuan Liao,
 Yanping Fu, Jiahao Xu, Yi Gao, Mengran Wang,
 Zhoubing Huang* and Dali Sun*

3780



Rapid quantification of oxidation indicators in fish oil by digital image colourimetry

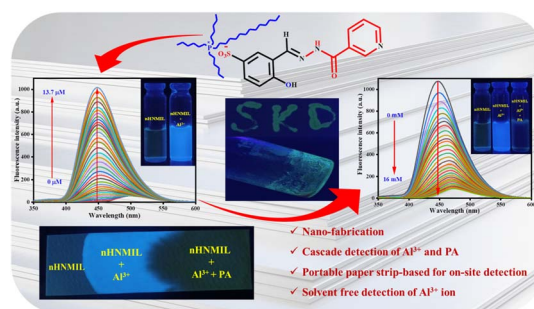
Xianggang Yin, Xiaohan Zhao, Xin Chen, Jiayi Jiang,
 Lele Li, Qinting Jiang, Linlin Wu,* Yifeng Zhou* and
 Jun Huang



3792

An Al³⁺ ions-responsive blue emitting ionic liquid-based nano-optode and its implications for the detection of 2, 4, 6-trinitrophenol

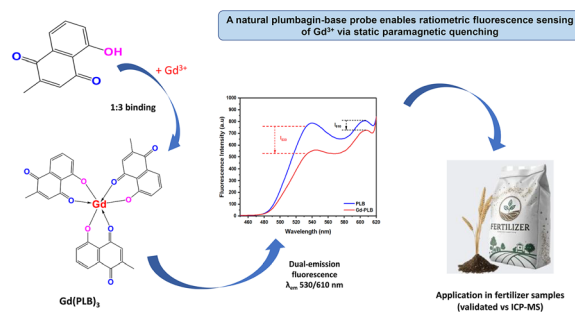
Shubham Lama and Sudhir Kumar Das*



3807

Ratiometric fluorescence determination of Gd(III) using plumbagin: method validation and analysis of real samples

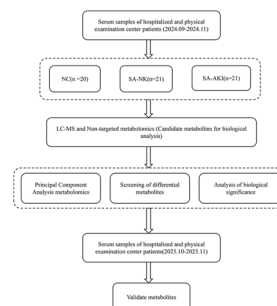
Do Tam Nhan, Le Thi Thanh Tran, Nguyen Le Anh, Pham Van Tat and Le Van Tan*



3820

Metabolomics-based study of potential biomarkers and metabolic pathways in sepsis-associated acute kidney injury

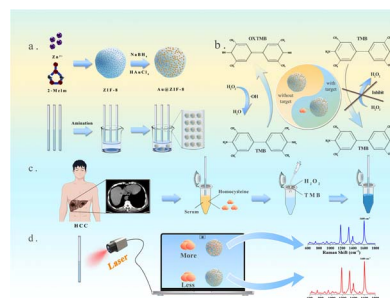
Xinyi Sun, Fang Li, Gaoyin Yang, Yuxin Wu, Jing Wang, Junhong Yang, Jiatong Li,* Huanqin Wang* and Shu Wang*



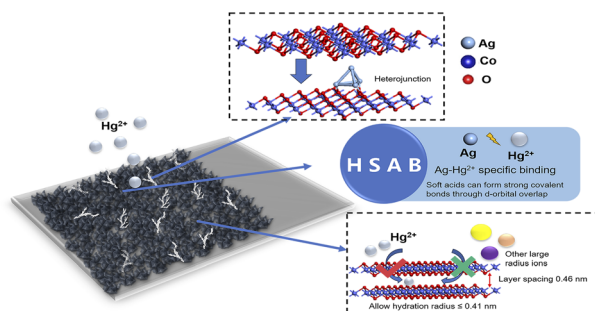
3829

Capillary-SERS sensor based on aptamer-mediated inhibition of nanozyme catalysis for ultrasensitive detection of homocysteine in serum from hepatocellular carcinoma patients

Wangxuan Xia, Juncheng Shi, Yongjin Yu, Ming Tan, Lin Xia and Chun Dai*



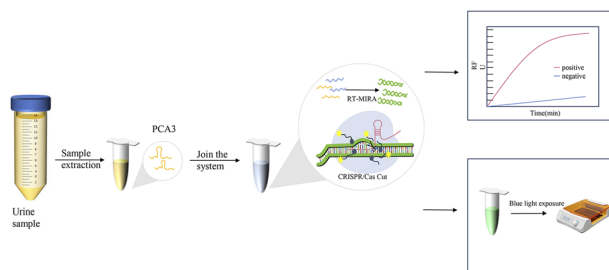
3840



Synergistic interface engineering of a $\text{Co(OH)}_2@Ag\text{NPs}$ heterostructure for trace electrochemical Hg^{2+} detection

Yanchao Sun, Hongliang Dai, Zheng Wang, Weiqiang Fan* and Hongye Bai*

3848

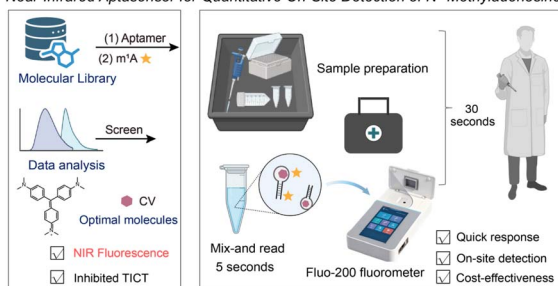


Study on the detection of prostate cancer using MIRA-CRISPR/Cas12a technology

Yuanyuan Chen, Daiyan Tang, Jin Zhan, Yiyao Wang and Zhen Song*

3858

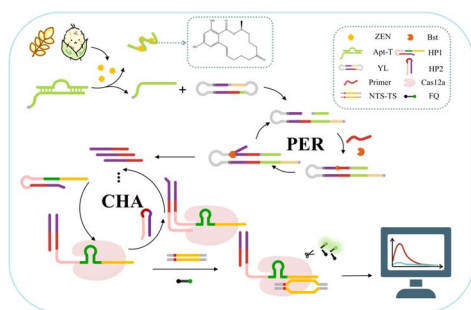
Near-Infrared Aptasensor for Quantitative On-Site Detection of N^1 -Methyladenosine



Integration of a screening-guided near-infrared aptasensor into a portable platform for quantitative on-site detection of N^1 -methyladenosine

Qi Pang, Dandan Zhang, Ruilin Ma, Wuduo Zhao, Xinyue Cao, Zhongyang Huang, Tuanjie Huang* and Jiaheng Zhang*

3865



A novel high-sensitivity fluorescence detection technology for zearalenone based on the PER-triggered crRNA conformational change and CHA-coordinated energy supply

Runlong Ma, Yijing Xiao, Wentong Yu, Chunyuan Huo, Shuangyu Meng, Ziyang Zhao, Zhiqiang Guo, Xinru Ren, Haiping Zhang, Bowen Li, Yu Wang, Su Liu and Jiadong Huang*

