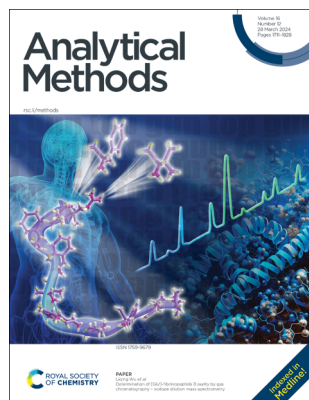


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### Cover

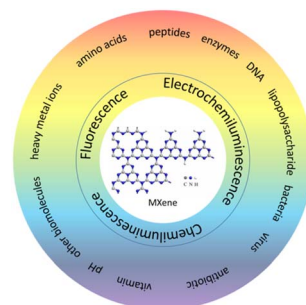
See Liqing Wu *et al.*, pp. 1741–1747. Image reproduced by permission of Liqing Wu from the National Institute of Metrology, from *Anal. Methods*, 2024, **16**, 1741.

## CRITICAL REVIEW

1718

### Advances in MXene-based luminescence sensing strategies

Lingfeng Gao and Chiyang He\*

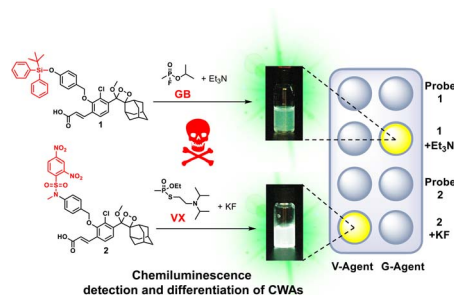


## COMMUNICATION

1736

### Highly sensitive chemiluminescence sensors for the detection and differentiation of chemical warfare agents

Orit Redy Keisar,\* Alexander Pevzner, Gil Fridkin, Omri Shelef, Doron Shabat\* and Nissan Ashkenazi\*



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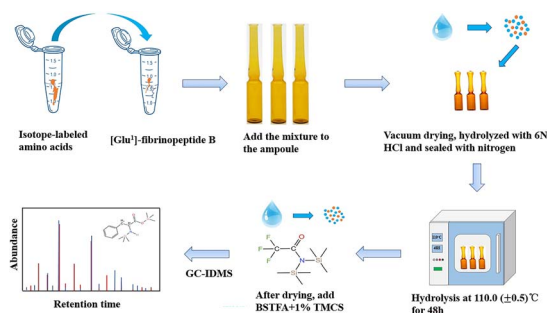




1741

### Determination of [Glu<sup>1</sup>]-fibrinopeptide B purity by gas chromatography – isotope dilution mass spectrometry

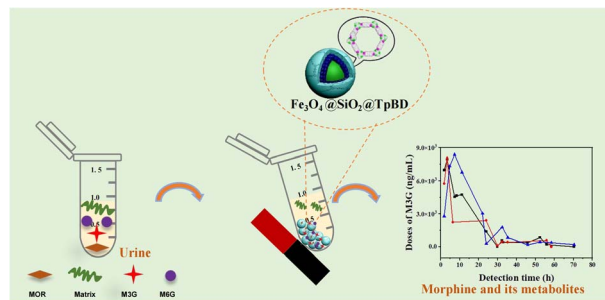
Dongmei Zhou, Xianxia Wang, Jun Zou, Jiayi Song, Ping Su, Yi Yang and Liqing Wu\*



1748

### Determination of trace morphine and its metabolites in mouse urine using a TpBD functionalized bivalve magnetic nano-adsorbent

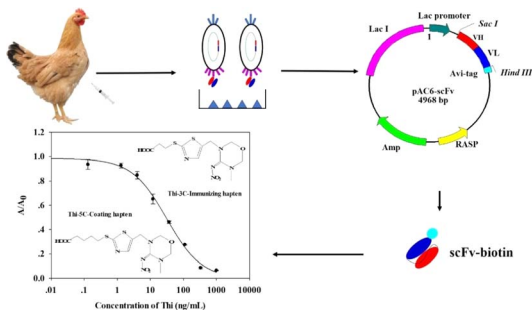
Yuan Cheng Wang, Xin Chen, Wenping Qian, Tianqi Chen, Shusheng Zhang\* and Wenfen Zhang\*



1756

### Heterologous antigen selection of chicken single-chain variable fragments against thiamethoxam

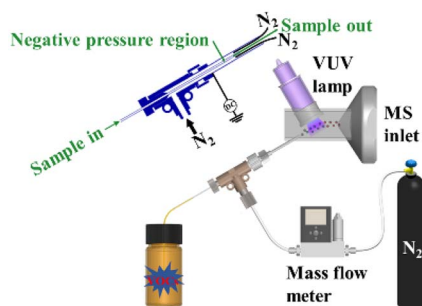
Jinxin He, Yating Wang, Di Wang, Yayun Yang, Xianle Xue, Ting Xu,\* Shaopeng Gu\* and Fang Tang\*



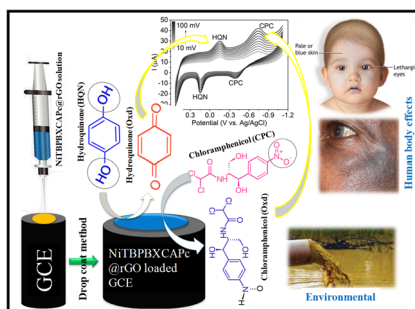
1763

### Self-aspiration sampling design for rapid analyses of volatile organic compounds based on atmospheric pressure chemical ionization/photoionization combined ionization source mass spectrometry

Yuxin Wang, Hengyi Xu, Bo Sui, Hui Xi, Yingjie Fu, Wuduo Zhao, Peng Li, Shihao Sun,\* Dingzhong Wang\* and Jianxun Zhang



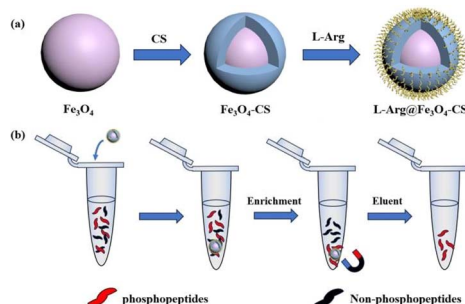
1770



### Novel nickel(II) phthalocyanine/reduced graphene oxide: an electrochemical sensing platform for analysis of hydroquinone and chloramphenicol in environmental samples

Mounesh,\* P. Manikanta, Rohit Rangnath Nikam, Girish Tigari and Bhari Mallanna Nagaraja\*

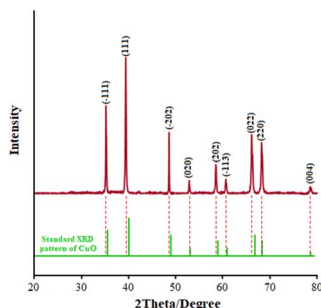
1785



### Enrichment of phosphopeptides by arginine-functionalized magnetic chitosan nanoparticles

Junwei Yang, Si Zhou, Haijiao Zheng\* and Qiong Jia\*

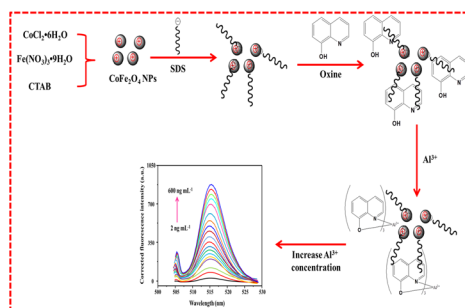
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### An electrochemical sensor for the determination of environmentally hazardous fungicide pyrimethanil in water and fruit samples

Chou-Yi Hsu,\* Tariq J. Al-Musawi, Rahim Lataef, Holya A. Lafta, Dalal Abdullah Fatthi, Ahmed S. Abed, Salema K. Hadrawi,\* Maysm Barzan Talb, Irfan Ahmad, Safia Obaidur Rab and Mohammad Y. Alshahrani

1804



### Ultrasensitive fluorometric determination of aluminum using the CoFe<sub>2</sub>O<sub>4</sub> NPs/SDS/oxine system with the aid of ultrasound waves

Yahya S. Alqahtani, Ashraf M. Mahmoud and Mohamed M. El-Wakil\*

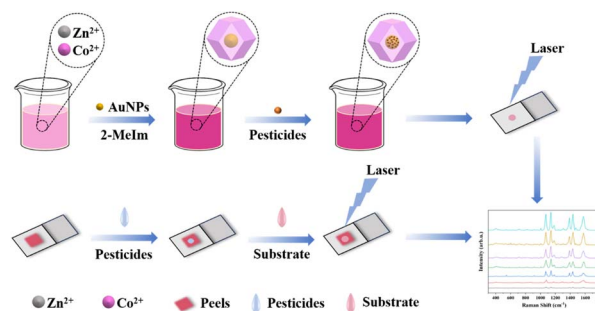


## PAPERS

1811

# A core-shell structured AuNPs@ZnCo-MOF substrate for sensitive and selective detection of thiram

Wenxia Xue, Jihong Fu,\* Yaxue Zhang, Shuxian Ren and Guoqi Liu



## TECHNICAL NOTE

1821

# Selective analysis of intracellular UDP-GlcNAc and UDP-GalNAc by hydrophilic interaction liquid chromatography-mass spectrometry

Chanudporn Sugiyama, Aogu Furusho, Kenichiro Todoroki and Eiji Sugiyama\*

