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Analytical Methods

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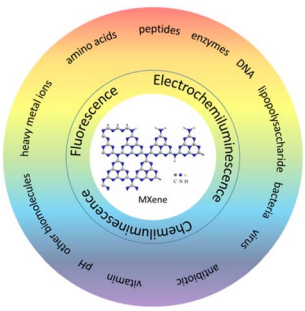
Cover
See Liqing Wu *et al.*, pp. 1741–1747. Image reproduced by permission of Liqing Wu from the National Institute of Metrology, from *Anal. Methods*, 2024, **16**, 1741.

CRITICAL REVIEW

1718

Advances in MXene-based luminescence sensing strategies

Lingfeng Gao and Chiyang He*

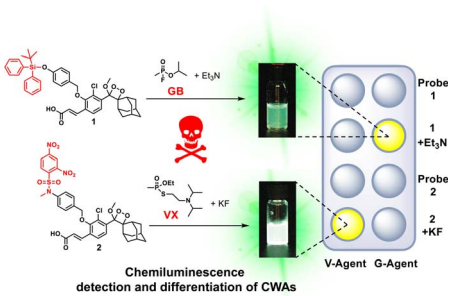


COMMUNICATION

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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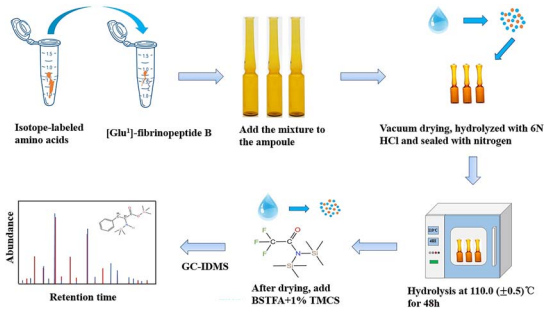
PAPERS

1741

Determination of [Glu[1]]-fibrinopeptide B purity by gas chromatography – isotope dilution mass spectrometry

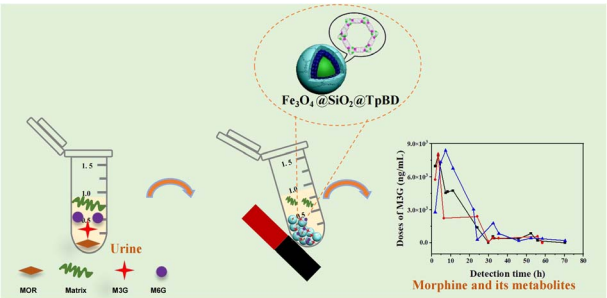
Dongmei Zhou, Xianxia Wang, Jun Zou, Jiayi Song, Ping Su, Yi Yang and Liqing Wu*



1748

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

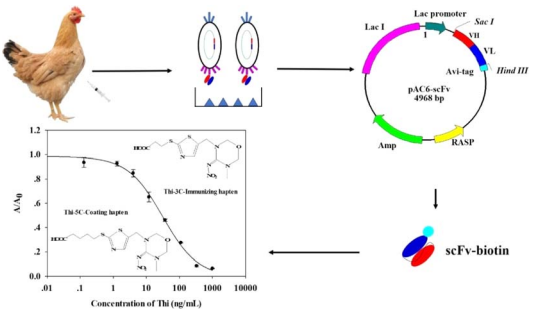
Yuancheng Wang, Xin Chen, Wenping Qian, Tianqi Chen, Shusheng Zhang* and Wenfen Zhang*



1756

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

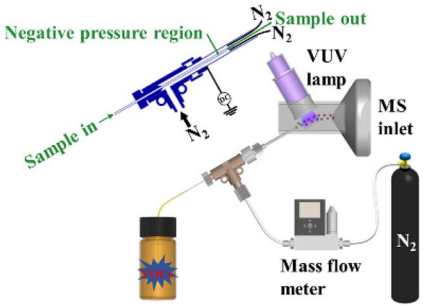
Jinxin He, Yating Wang, Di Wang, Yayun Yang, Xianle Xue, Ting Xu,* Shaopeng Gu* and Fang Tang*



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



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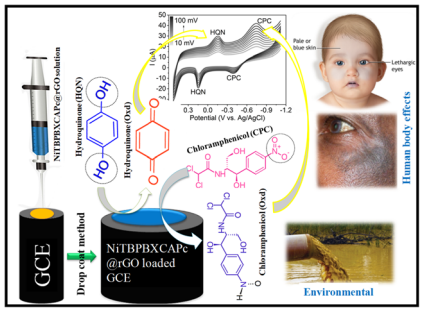
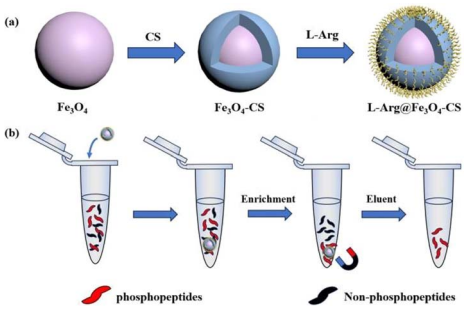
1770



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*

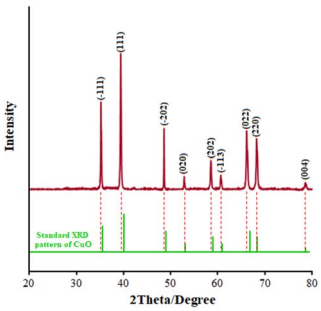
1785



Enrichment of phosphopeptides by arginine-functionalized magnetic chitosan nanoparticles

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

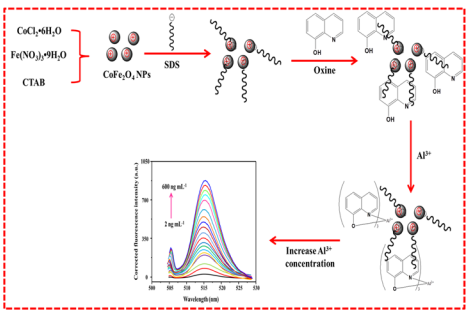
1793



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 $CoFe_2O_4$ NPs/SDS/oxine system with the aid of ultrasound waves

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

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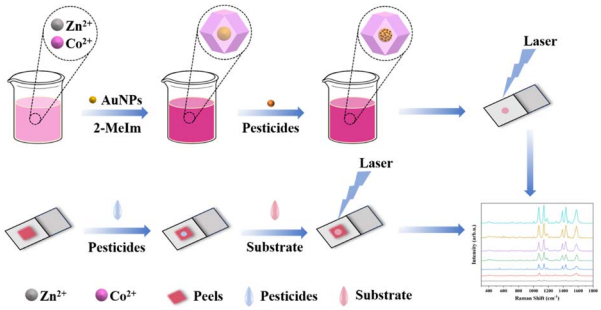
PAPERS

1811

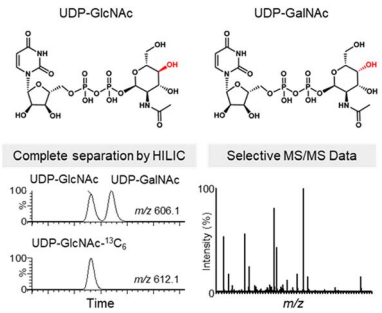
A core–shell structured AuNPs@ZnCo-MOF SERS substrate for sensitive and selective detection of thiram

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*