

Analytical Methods

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IN THIS ISSUE

ISSN 1759-9679 CODEN AMNECT 16(14) 1959–2154 (2024)



Cover

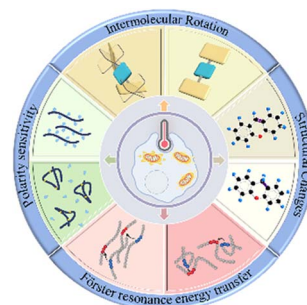
See Vagner Bezerra dos Santos *et al.*, pp. 2009–2018. Image reproduced by permission of Vagner Bezerra dos Santos from *Anal. Methods*, 2024, **16**, 2009.

MINIREVIEW

1968

Response strategies and biological applications of organic fluorescent thermometry: cell- and mitochondrion-level detection

Shuai Li, Yaoxuan Li, Shiji Zhang, Haixiao Fang, Ze Huang, Duoteng Zhang, Aixiang Ding, Kajsa Uvdal, Zhangjun Hu,* Kai Huang* and Lin Li*

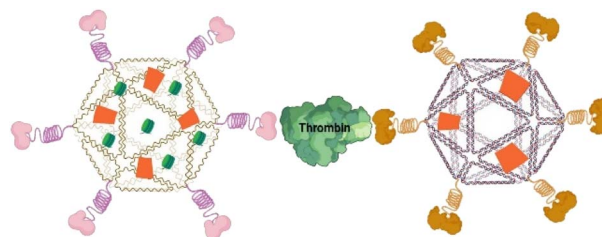


CRITICAL REVIEW

1985

Sandwich-type aptamer-based biosensors for thrombin detection

Somayeh Sahraneshin Samani, Elham Sameiyan, Farideh Tabatabaei Yazdi, Seyed Ali Mortazavi, Mona Alibolandi, Mohammad Ramezani, Seyed Mohammad Taghdisi* and Khalil Abnous*



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Fundamental questions
Elemental answers

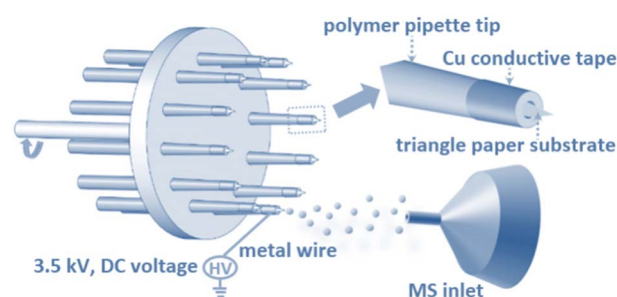


COMMUNICATION

2002

Surface charge-induced electrospray for high-throughput analysis of complex samples and electrochemical reaction intermediates using mass spectrometry

Yajie Huang, Yajun Zheng, Qianqian Zuo, Zhiming Zhang, Lixuan Zhu, Yun Li and Zhiping Zhang*

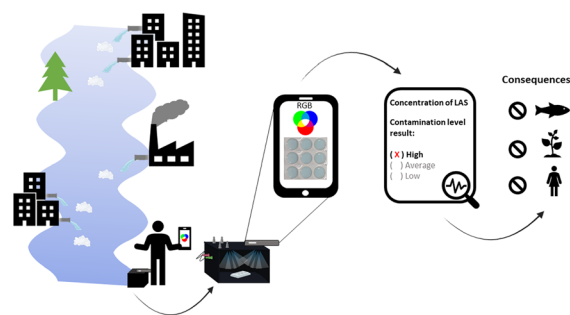


PAPERS

2009

A novel *in situ* method for linear alkylbenzene sulfonate quantification in environmental samples using a digital image-based method

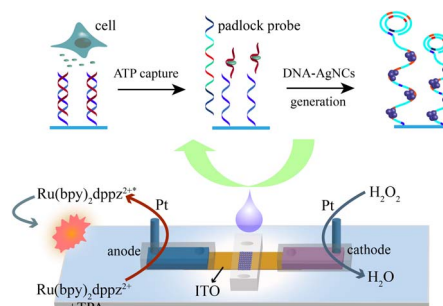
Helayne S. de Sousa, Roxanny Arruda-Santos, Eliete Zanardi-Lamardo, Willian T. Suarez, Josiane L. de Oliveira, Renata A. Farias and Vagner Bezerra dos Santos*



2019

An electrochemiluminescence microsensor based on DNA-silver nanoclusters amplification for detecting cellular adenosine triphosphate

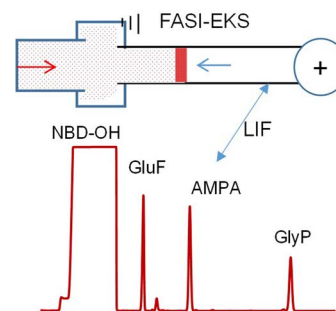
GuanQi Wu, Jian Chen, JinXin Dou, XiangWei He,* Hai-Fang Li* and Jin-Ming Lin



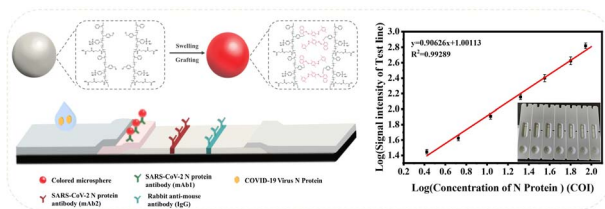
2025

Sensitive detection of herbicide residues using field-amplified sample injection coupled with electrokinetic supercharging in flow-gated capillary electrophoresis

Ying Gong and Maojun Gong*



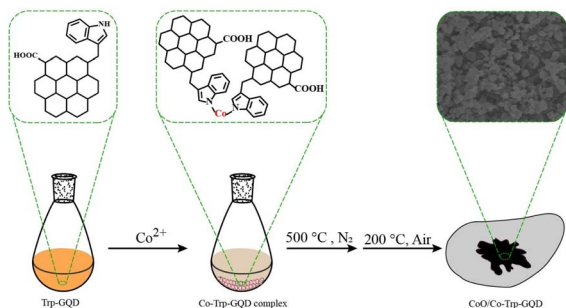
2033



Preparation of dyed polymer microspheres by a physical-chemical dual-binding method and their application in lateral flow immunoassay

Jiatong Li, Pengfei Zhang, Qianrui Xu, Yingrui Nie, Shimin Shao, Zhifei Wang and Yong Jiang*

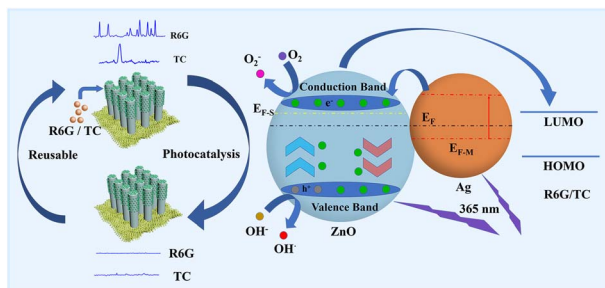
2044



CoO/Co-graphene quantum dots as an oxidative mimetic nanozyme for the colorimetric detection of L-cysteine

Dan Xu,* Qingbo Tu, Xin San, Anhong Zhu and Xinru Li

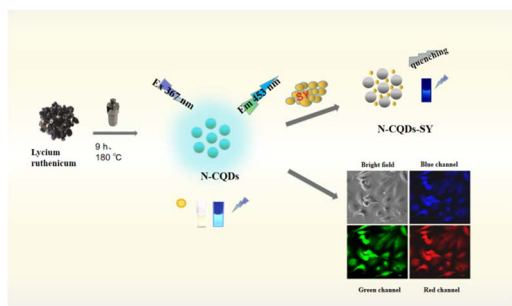
2051



High performance and recyclable Ag/ZnO/PM substrate for the detection of organic pollutants

Yixin Shao, Hongxin Cai,* Lingling Yan,* Hang Yu, Qiang Hu, Liang Chen, Haitao Zong and Xiufang Hou

2063



Nitrogen-doped biomass-derived carbon dots for fluorescence determination of sunset yellow

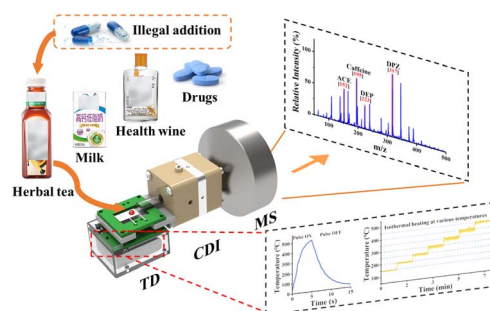
Qian Zhang, Xiaoqi Wang, Lili Yuan, Lina Yu, Congying Shao,* Hongxing Jia* and Shun Lu*



2071

Diverse thermal desorption combined with self-aspirating corona discharge ionization for direct mass spectrometry analysis of complex samples

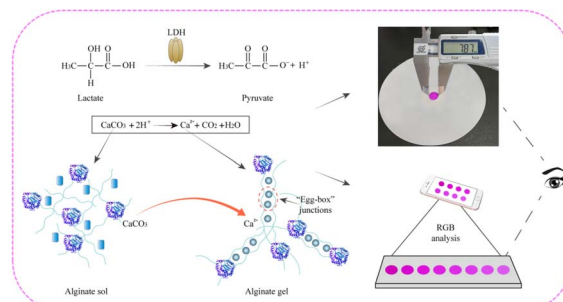
Qinhao Shi, Xiaohua Yu, Shuang Sun, Weilong Wu, Wenyan Shi* and Quan Yu*



2077

Sodium alginate hydrogelation mediated paper-based POCT sensor for visual distance reading and smartphone-assisted colorimetric dual-signal determination of L-lactate

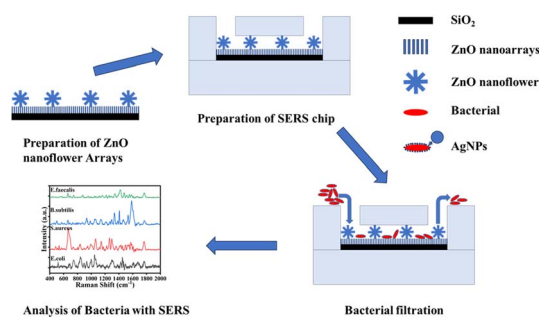
Wenjuan Wang, Danrong Chen, Yujiao Cai, Zijing Liu, Hongfen Yang, Hongbin Xie, Jinquan Liu and Shengyuan Yang*



2085

A novel multifunctional SERS microfluidic sensor based on ZnO/Ag nanoflower arrays for label-free ultrasensitive detection of bacteria

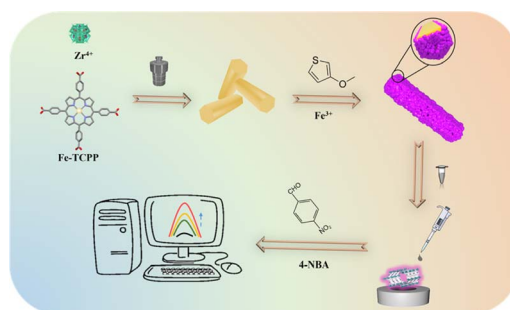
Yue Liu, Guanwen Su, Wei Wang, Hongyuan Wei and Leping Dang*



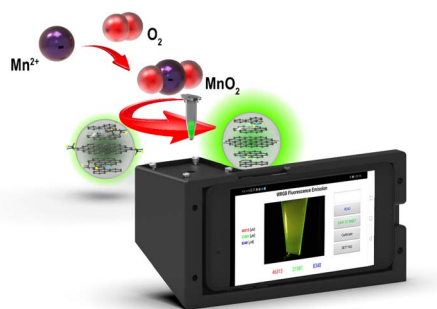
2093

P3MOT-decorated metal-porphyrin-based zirconium-MOF for the efficient electrochemical detection of 4-nitrobenzaldehyde

Wen-yi Chen, Xin-yu Huang, Qian Sun* and En-qing Gao



2101

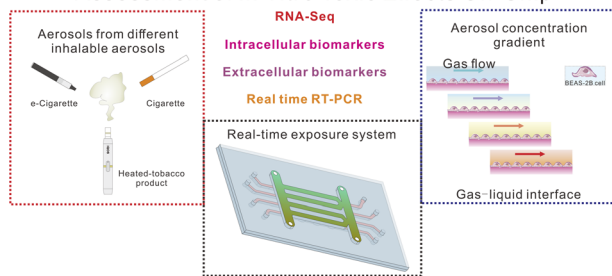


A portable fluorescence detection device based on a smartphone employing carbon nanodots for Mn²⁺ sensing

Pijika Mool-am-kha, Samuch Phetduang, Kessarin Ngamdee, Chayada Surawanitkun, Xiang-Kui Ren and Wittaya Ngeontae*

2111

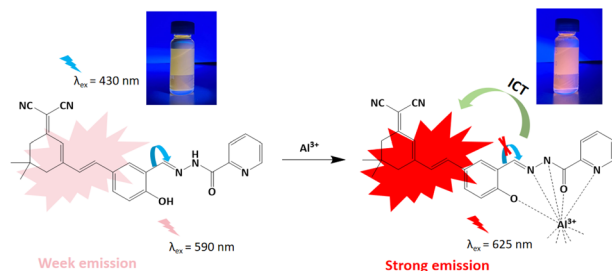
Assessment of *In Vitro* Toxic Effects On-Chip



The application of a self-designed microfluidic lung chip in the assessment of different inhalable aerosols

Ze zhi Li, Xiang Li,* Boyang Feng, Junwei Zhao, Kejian Liu, Fuwei Xie and Jianping Xie*

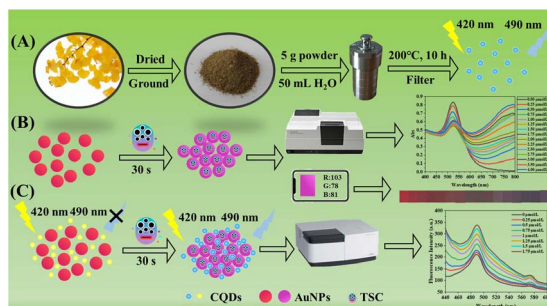
2120



A novel isophorone-based fluorescent probe for recognizing Al³⁺ and its bioimaging in plants

Yanna Zhao,* Yuqi Wang, Yingying Zhang, Xiaowei Bai, Wentong Hou and Yuqing Huang

2127



Construction of a three-mode sensor based on gold nanoparticles and carbon quantum dots as probes for the detection of thiosemicarbazone

Zhili Liu, Xiaojun Wang, Jing Li, Wenfeng Zhou, Haixiang Gao and Runhua Lu*

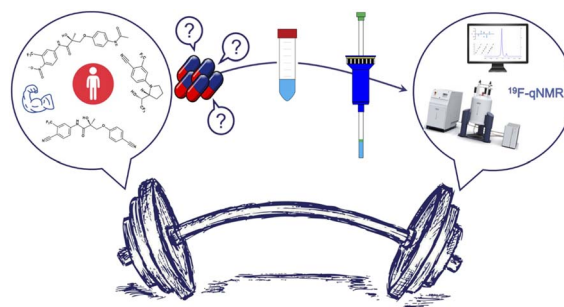


PAPERS

2135

A screening method for the quantitative determination of selective androgen receptor modulators (SARMs) in capsules by high resolution ^{19}F - and ^1H -NMR spectroscopy

Alessandro Maccelli, Anna Borioni, Federica Aureli, Maria Cristina Gaudiano, Livia Manna and Mariangela Raimondo*



TECHNICAL NOTE

2147

Capillary action-driven surface-enhanced Raman spectroscopy (SERS) for the identification of phthalocyanine blue in modern paintings based on the BPG spot test

Shao-Chun Hsueh, Ling-Hsuan Wang, Yung-Chen Liao, Hui-Yu Chiang and Cheng-Huang Lin*

