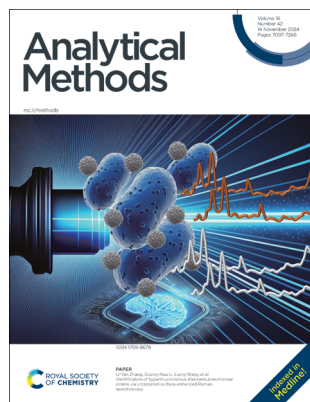


IN THIS ISSUE

ISSN 1759-9679 CODEN AMNECT 16(42) 7097–7266 (2024)



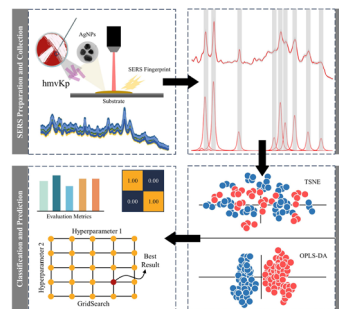
Cover
See Li-Yan Zhang, Guang-Hua Li, Liang Wang *et al.*, pp. 7105–7113. Image reproduced by permission of Liang Wang from *Anal. Methods*, 2024, **16**, 7105. Image generated with Adobe Firefly.

PAPERS

7105

Identification of hypermucoviscous *Klebsiella pneumoniae* strains via untargeted surface-enhanced Raman spectroscopy

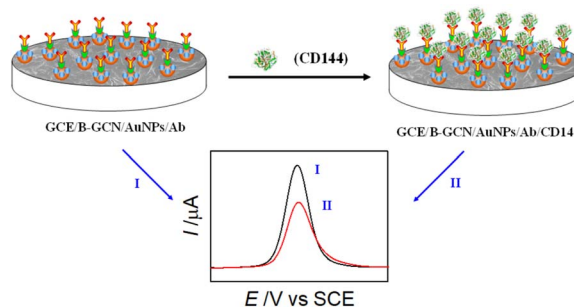
Li-Yan Zhang,* Jia-Wei Tang, Ben-Shun Tian, Yuanhong Huang, Xiao-Yong Liu, Yue Zhao, Xu-Xia Cui, Xin-Yu Zhang, Yu-Rong Qin, Guang-Hua Li* and Liang Wang*



7114

Porous boron-doped graphitic carbon nitride-based label-free electrochemical immunoassay of vascular endothelial cadherin

Xuan Wang, Mengting He, Rujie Yu and Liang Tan*



**GOLD
OPEN
ACCESS**

EES Batteries

**Exceptional research on
batteries and energy storage**

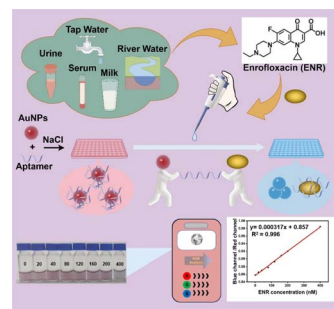
Part of the EES family

**Join
in** | Publish with us
rsc.li/EESBatteries

7121

A colorimetric-aptamer-based assay for the determination of enrofloxacin through triggering the aggregation of gold nanoparticles

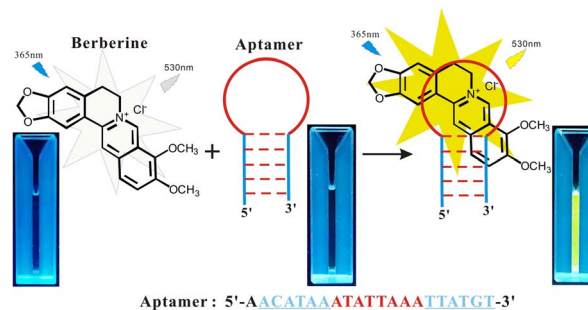
Wei-Chuang Kong, Chen-Chen Li, Ai-Hong Zhang, Xin-Long Li, Qian-Rui Gong, Bing-Tan Jin, Xiao-Juan Jia, Xu-Ying Liu* and Yan-Fei Kang*



7130

A simple and label-free fluorescent DNA sensor for visual detection of aptamer-based berberine

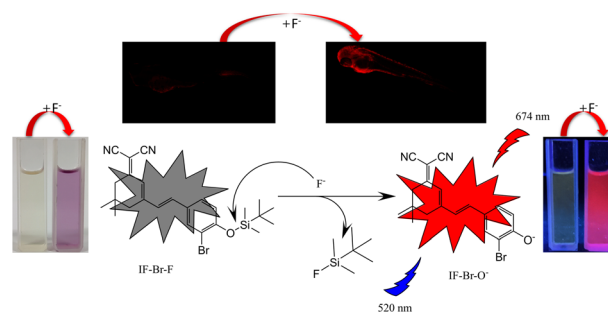
Wenjuan Zhang, Mingwan Luo, Juan Chen, Zhengxing Li, Xian Wei, Miqi Wu, Shengli Yang, Yuanju He, Xiaoping Wang and Zhiyou Xiao*



7139

A novel fluorescent probe for efficient detection of fluoride ions in living animal and plant tissues

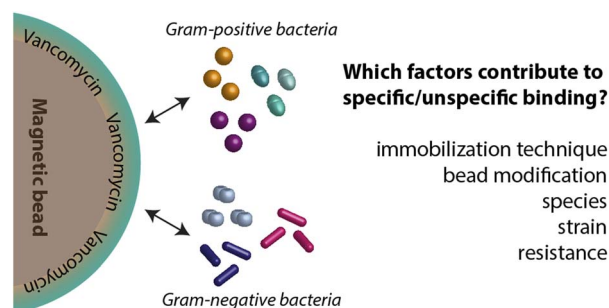
Jun Chen, Maoting Qu, Jiahao Zhang, Yongxue Yao, Xinyu Pei, Wen Wu* and Shuchen Pei*



7148

Evaluating the potential of vancomycin-modified magnetic beads as a tool for sample preparation in diagnostic assays

Susanne Pahlow,* Sabine Schmidt, Tabea Pappert, Lara Thieme, Oliwia Makarewicz, Stefan Monecke, Ralf Ehricht, Karina Weber and Jürgen Popp



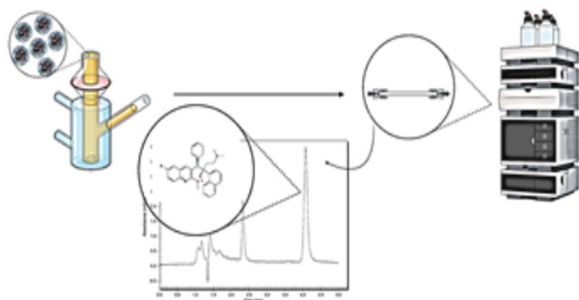
7161



Coating Fe₃O₄ quantum dots with glutamic acid to achieve enhanced catalysis for facile and sensitive detection of chromium(vi) in water

Guidan Huang, Hongying Ye, Xuejian Mo, Ruizheng Hao, Guanhai Huang, Jinhua Liang, Deqiang Wang, Xiaofen Xiao* and Wenyuan Zhu*

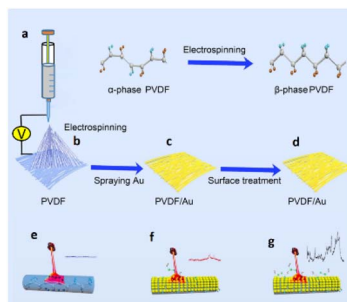
7169



A sensitive, rapid and cost-effective RP-HPLC-UV method for detection and quantification of bedaquiline in physiological fluid (pH 7.4)

Simisola Ayodele, Armored D. van Eyk, Pradeep Kumar and Yahya E. Choonara*

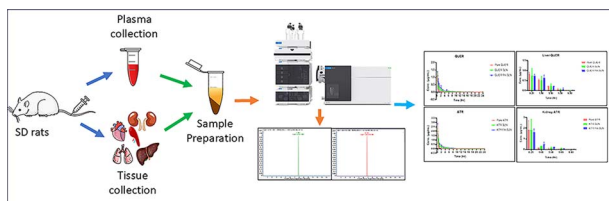
7178



A highly sensitive SERS sensor based on PVDF/Au nanofibers for trace analysis of nitrite ions

Mei Sun,* Xiaoyi Tang, Ke Chen, Hanmei Hu, Mingdi Yang, Haiou Zhou and Ping Chen*

7188



Folic acid-conjugated long circulating co-encapsulated atorvastatin and quercetin solid lipid nanoparticles: pharmacokinetics and biodistribution in rats

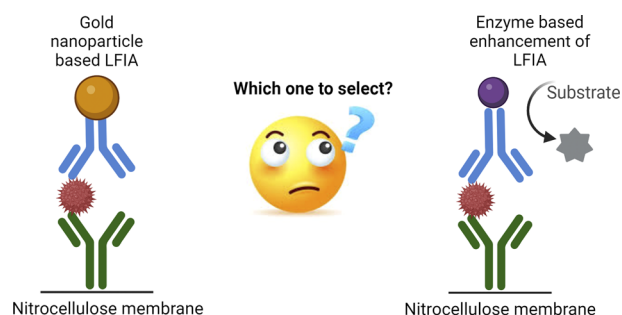
Dimple S. Lalchandani, Laltanpuii Chenkual, Sonali Pate, Uttam Kulhari, Bidya Dhar Sahu, Naveen Chella* and Pawan Kumar Porwal*



7200

Direct comparison of colorimetric signal amplification techniques in lateral flow immunoassays

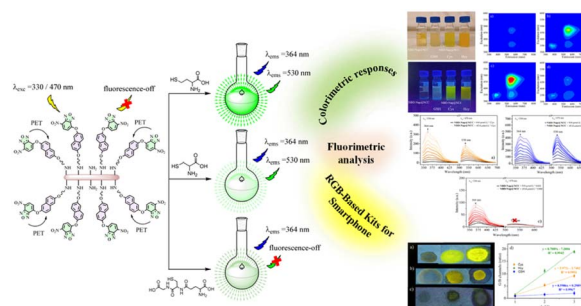
N. Sathishkumar and Bhushan J. Toley*



7210

The preparation of a fluorescent dual-modality nanosensor for the discrimination and determination of biothiols in real samples and its practical detection kit

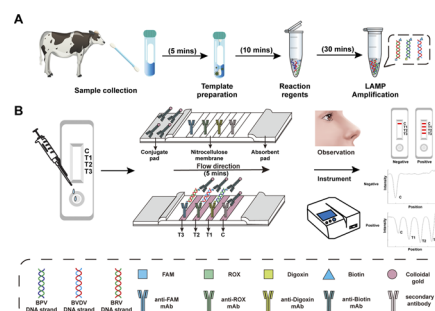
İpek Ömeroğlu, Vildan Sanko, Ahmet Şenocak and Süreyya Oğuz Tümay*



7224

Combining a lateral flow immunoassay with triplex loop-mediated isothermal amplification for the concurrent identification of three bovine diarrhea syndrome viruses

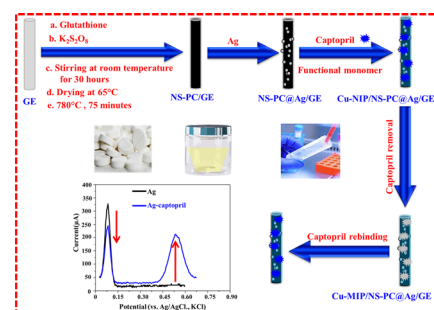
Huiyang Xu, Biao Ma, Lijia Li, Yating Song, Jiangbing Shuai, Xiaofeng Zhang and Mingzhou Zhang*



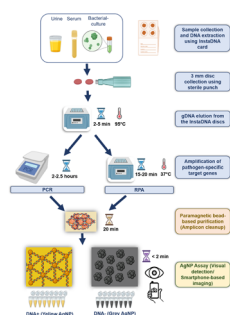
7234

Electrochemical determination of captopril using a disposable graphite electrode modified with a molecularly imprinted film, accompanied by a ratiometric read-out

Ahmed Z. Alanazi, Khalid Alhazzani, Hossieny Ibrahim, Al-Montaser Bellah H. Ali, Mahmoud Darweesh and Mohamed M. El-Wakil*



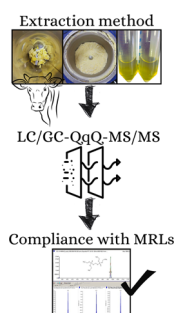
7242



Isothermal recombinase polymerase amplification and silver nanoparticle assay: a sustainable approach for ultrasensitive detection of *Klebsiella pneumoniae*

Naresh Patnaik, Nidhi Orekonday and Ruchi Jain Dey*

7255



Development of a novel and useful methodology for the simultaneous analysis of multiclass contaminants in bovine fat

Rodrigo Souza, Natalia Gérez, Natalia Besil, María Verónica Cesio, Horacio Heinzen* and Lucia Pareja*

