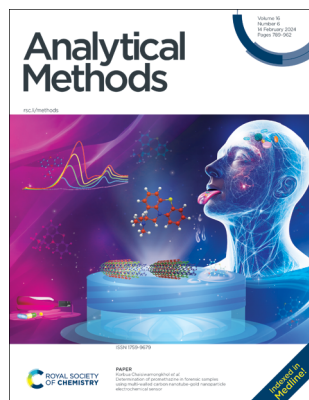


IN THIS ISSUE

ISSN 1759-9679 CODEN AMNECT 16(6) 789–962 (2024)



Cover

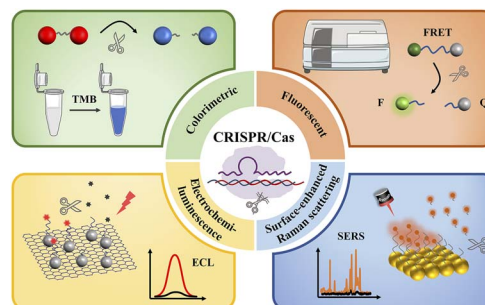
See Korbua
Chaisiwamongkhon *et al.*,
pp. 817–829. Image
reproduced by permission of
Korbua Chaisiwamongkhon
from *Anal. Methods*,
2024, **16**, 817.

CRITICAL REVIEW

798

Recent progress on the CRISPR/Cas system in optical biosensors

Bingqian Li, Guangyu Zhai, Yaru Dong, Lan Wang*
and Peng Ma*

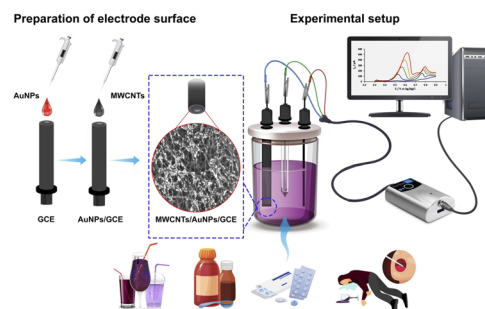


PAPERS

817

Determination of promethazine in forensic samples using multi-walled carbon nanotube-gold nanoparticle electrochemical sensor

Natthakarn Chanjamsri, Apichai Phonchai,
Kamonwad Ngamchuea, Duangjai Nacapricha,
Prapin Wilairat and Korbua Chaisiwamongkhon*



RSC Sustainability

GOLD
OPEN
ACCESS

Dedicated to sustainable
chemistry and new solutions

For an open, green and inclusive future

rsc.li/RSCSus

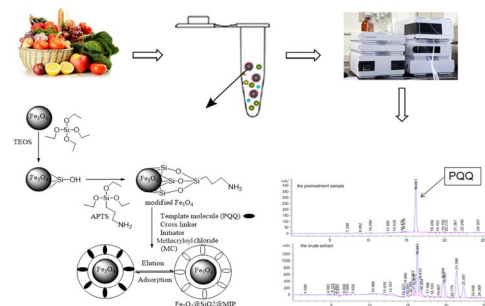
Fundamental questions
Elemental answers

PAPERS

830

Selective extraction and quantitative analysis of pyrroloquinoline quinone from food

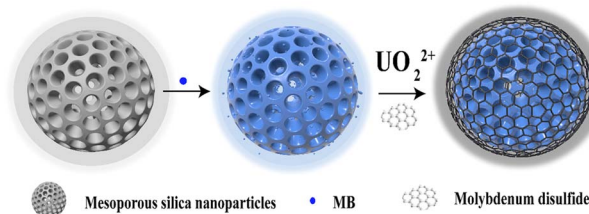
Ke Ma, Ze-Yu Su, An-Ran Pei and Xue-Peng Yang*



837

Colorimetric sensing for the sensitive detection of UO_2^{2+} via the phosphorylation functionalized mesoporous silica-based controlled release system

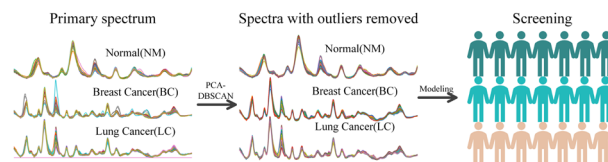
Yating Wang, Jinquan Liu,* Jiao Shi, Xiayu Zhou, Yan Tan, Zhongran Dai, Deshuai Zhen and Le Li*



846

An outlier removal method based on PCA-DBSCAN for blood-SERS data analysis

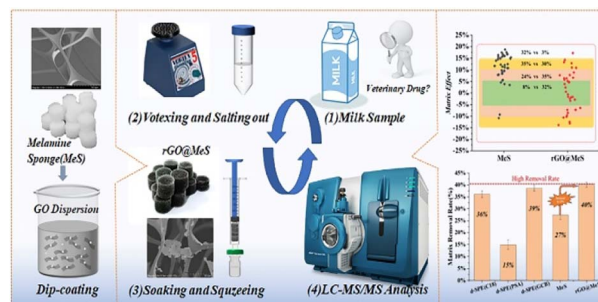
Miaomiao Liu, Tingyin Wang,* Qiyl Zhang, Changbin Pan, Shuhang Liu, Yuanmei Chen,* Duo Lin and Shangyuan Feng*



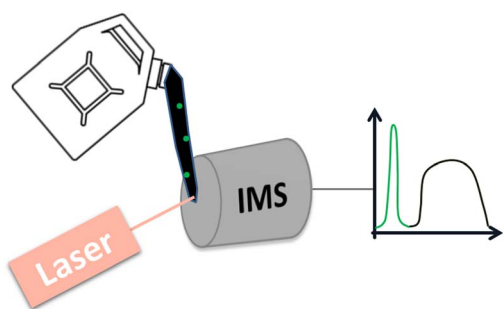
856

Improved matrix purification using a graphene oxide-coated melamine sponge for UPLC-MS/MS-based determination of 37 veterinary drugs in milks

Xu Xu, Jia Lv, Jintian Zhou, Baocheng Ji, Lanrui Yang, Gaigai Xu, Zhuchen Hou, Lulu Li and Yanhong Bai*



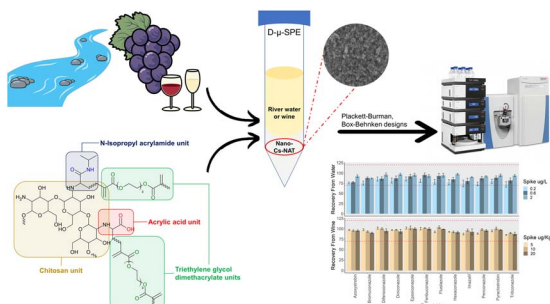
864



Selective ionization of marker molecules in fuels by laser-based ion mobility spectrometry (LIMS)

Martin Zühlke,* Leonard Genin, Daniel Riebe and Toralf Beitz

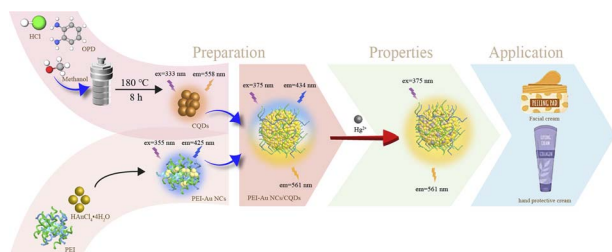
873



Synthesis and evaluation of a chitosan nanomaterial as efficient sorbent for determination of fungicide residues in waters and wine by liquid chromatography high resolution mass spectrometry

Lorenzo Martello, Androniki Rapti, Dimitrios N. Bikiaris and Dimitra A. Lambropoulou*

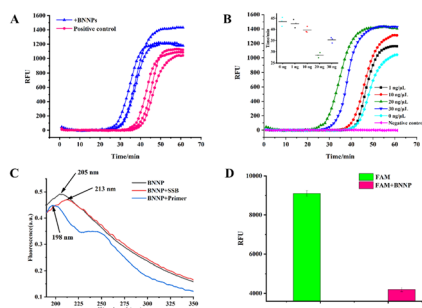
884



Ratiometric fluorescence detection of Hg²⁺ based on gold nanocluster/carbon quantum dots nanohybrids

Junyu Chen, Rui Tian,* Duo Li, Xuehua Sun, Haoyu Li and Yuecheng Zhang

892



Boron nitride nanoplate-based strand exchange amplification with enhanced sensitivity and rapidity for quantitative detection of *Staphylococcus aureus* in food samples

Shuo Lin, Xin Zhang, Anning Tian, Pengyu Wang, Yong Li, Chao Shi, Cuiping Ma and Yaofang Fan*

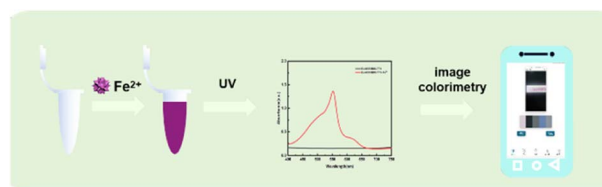


PAPERS

899

A dual-ligand lanthanide-based metal–organic framework for highly selective and sensitive colorimetric detection of Fe²⁺

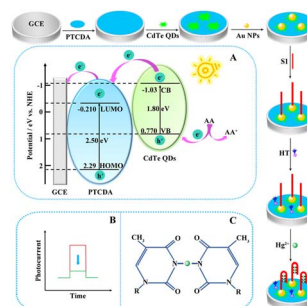
Miaomiao Li, Hui Dong,* Yanan Chen, Wanqing Hao, Yixin Wang, Yaqian Zhang, Ziyi Zhang, Yizhao Hao, Yanli Zhou, Fei Li* and Lantao Liu*



907

Efficient sensitization of CdTe QDs towards PTCDA for sensitive photoelectrochemical Hg²⁺ assay

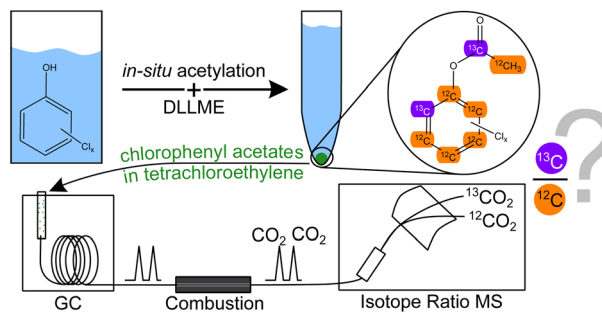
Mengjie Li,* You Zhou, Jiapeng Wang and Yang Chen



919

Dispersive liquid–liquid microextraction as a novel enrichment approach for compound-specific carbon isotope analysis of chlorinated phenols

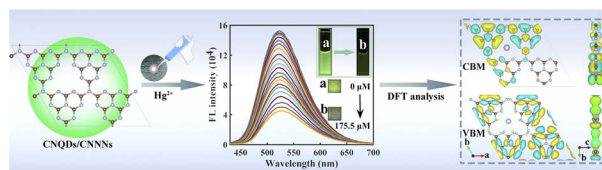
Philipp R. Martin,* Daniel Buchner, Maik A. Jochmann and Stefan B. Haderlein



930

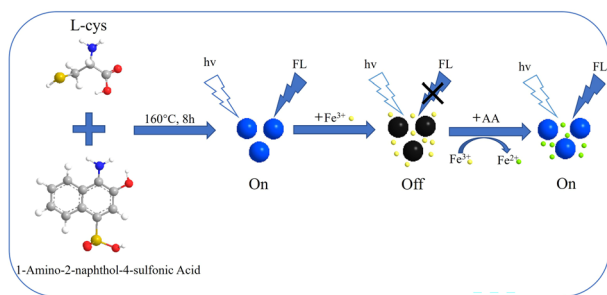
A graphitic C₃N₄ nanocomposite-based fluorescence platform for label-free analysis of trace mercury ions

Xinrong Guo, Wen Yao, Silan Bai, Junhui Xiao, Yubo Wei,* Lishi Wang* and Jie Yang*



PAPERS

939

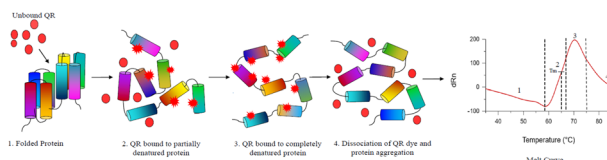


A sensitive sensor based on carbon dots for the determination of Fe^{3+} and ascorbic acid in foods

Qian Du, Xiaoyu Zhao, Xiping Mei, Yaqin Zhao, Chuan Dong and Junfen Li*

TECHNICAL NOTE

950



Quinaldine Red as a fluorescent probe for determining the melting temperature (T_m) of proteins: a simple, rapid and high-throughput assay

Dhruv Das, Vikram Sen, Goutam Chakraborty, Vinayaki Pillai, Rahul Tambade, Padma Nilaya Jonnalagadda, A. V. S. S. Narayana Rao and Rajani Kant Chittela*

CORRECTIONS

957

Correction: Redox behavior and adsorptive cathodic stripping voltammetric determination of nanomolar levels of palladium using a novel Schiff base reagent containing a squaric acid moiety

R. M. Ba-Shami, H. Gazzaz, A. S. Bashammakh, A. A. Al-Sibaai and M. S. El-Shahawi*

958

Correction: A novel lateral flow immunochromatographic assay using a recombinant VP2 antigen for total antibody detection of canine parvovirus-2

Ezgi Salmanli, Tugba Tezcan* and Taner Karaoglu*



CORRECTIONS

959

Correction: Low-cost electronic-nose (LC-e-nose) systems for the evaluation of plantation and fruit crops: recent advances and future trendsMarcus Vinicius Da Silva Ferreira, Jose Lucena Barbosa Jr,^{*} Mohammed Kamruzzaman and Douglas Fernandes Barbin