

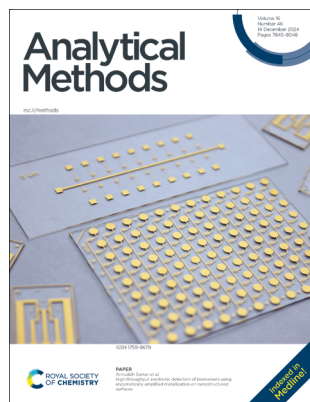
Analytical Methods

rsc.li/methods

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 1759-9679 CODEN AMNECT 16(46) 7845–8048 (2024)



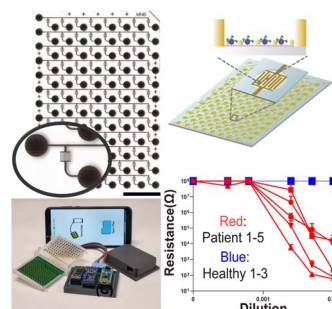
Cover
See Aniruddh Sarkar *et al.*,
pp. 7854–7863. Image
reproduced by permission of
Aniruddh Sarkar from *Anal.*
Methods, 2024, 16, 7854.

PAPERS

7854

High throughput electronic detection of biomarkers using enzymatically amplified metallization on nanostructured surfaces

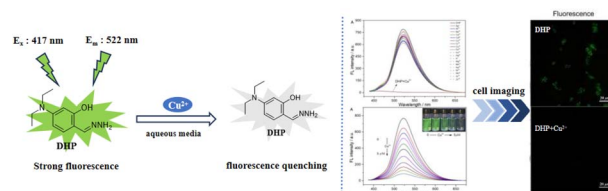
Hanhao Zhang, Neda Rafat, Josiah Rudge, Sai Preetham Peddireddy, Yoo Na Kim, Taaseen Khan and Aniruddh Sarkar*



7864

A simple turn-off fluorescent chemosensor based on a Schiff base structure for ultrafast and highly selective trace detection of Cu²⁺ ions in aqueous solutions

Jing Wang, Lu Ren, Qiang Sun, Yanqi Liu, Wanru Jia, Huihong Zhang and Dawei Zhang*



Royal Society of Chemistry approved training courses

Explore your options.
Develop your skills.
Discover learning
that suits you.

**Courses in the classroom,
the lab, or online**

Find something for every
stage of your professional
development. Search our
database by:

- subject area
- location
- event type
- skill level

Members **get at least 10% off**

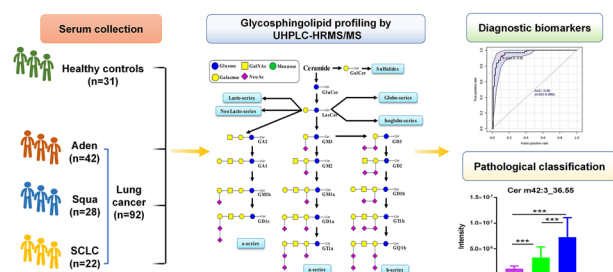
Visit rsc.li/cpd-training



**SAVE
10%**

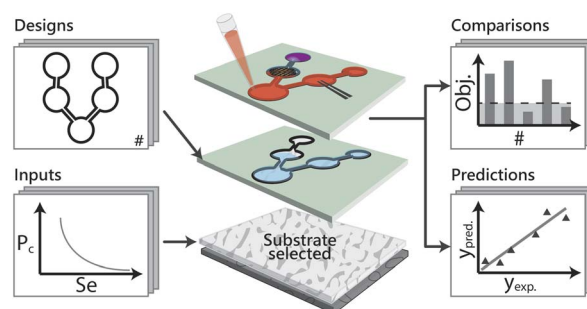
7873

Comprehensive profiling of serum glycosphingolipids to discover the diagnostic biomarkers of lung cancer and uncover the variation of glycosphingolipid networks in different lung cancer subtypes

Ting Hu,^{*} Feifei Han and Zhuoling An^{*}

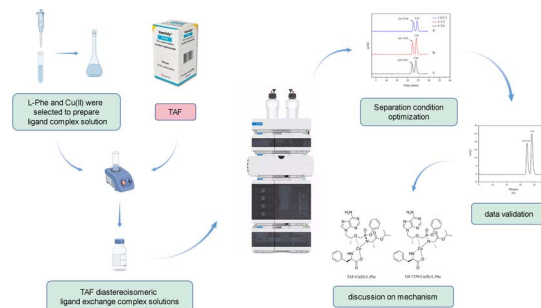
7888

A numerical platform for predicting the performance of paper-based analytical devices

Lawrence K. Q. Yan, Sze Kee Tam and Ka Ming Ng^{*}

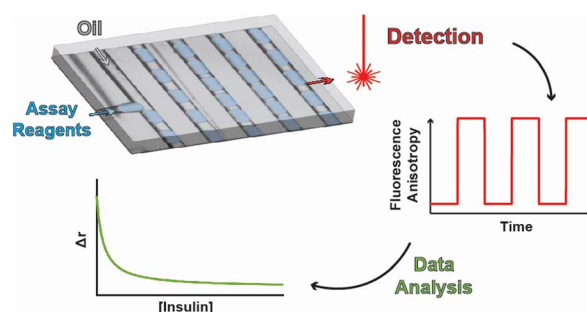
7898

Splitting and separation mechanism of tenofovir alafenamide fumarate chiral isomers based on indirect chiral ligand exchange chromatography

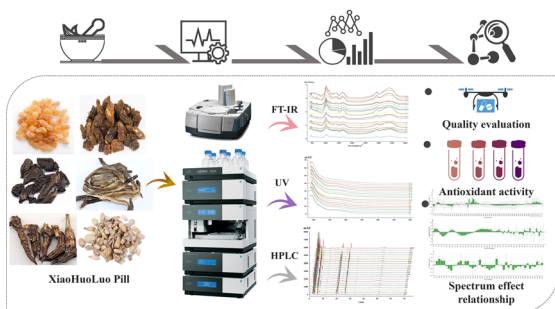
Li Lin, Longchao Xie, Lingyi Huang, Liying Huang^{*} and Youjia Wu^{*}

7908

Droplet-based fluorescence anisotropy insulin immunoassay

Damilola I. Adeoye, Rafael A. Masitas, James Thornham, Xiangyue Meng, Daniel J. Steyer and Michael G. Roper^{*}

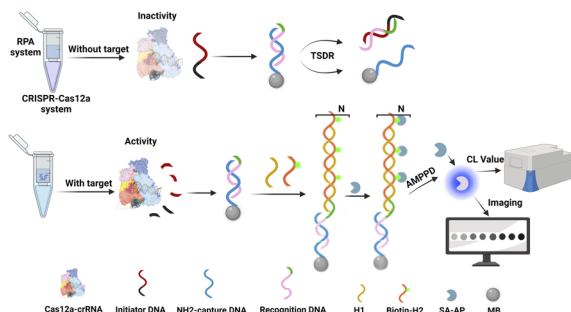
7915



A rapid evaluation method for the quality consistency assessment and spectrum–effect relationship study of XiaoHuoLuo Pills developed based on combined spectral and chromatography technology

Fangfang Cheng, Yiting Gao, Beibei Ren, Zhongyang Zhang, Minghui Dong, Guoxiang Sun, Chaohui Song, Siqi Wang, Haixia Gao,* Chunhua Zhou* and Lingjiao Wang*

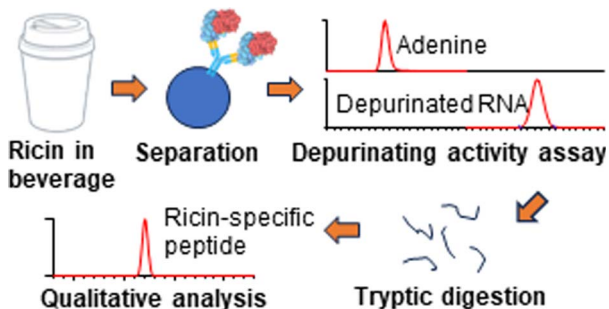
7927



A chemiluminescent sensor based on CRISPR-HCR technology for the hypersensitive detection of *Mycobacterium tuberculosis*

Yinuo Qiao, Xiaoyan Wang, Xuning Kang, Yuzhu Song, Jinyang Zhang and Qinqin Han*

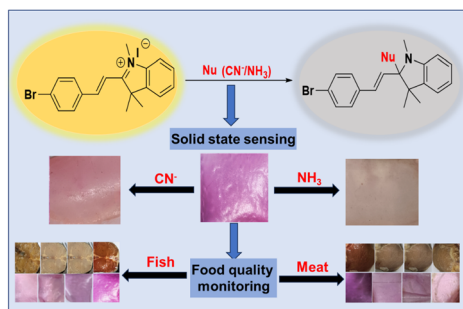
7940



Simultaneous analysis of depurinated nucleic acid stem-loop and free adenine for ricin toxicity assay by hydrophilic interaction liquid chromatography-high-resolution mass spectrometry (HILIC-HRMS)

Hajime Miyaguchi

7947



An indolium ion-based colorimetric sensor for naked-eye detection of cyanide and ammonia: on-site detection technique for cyanide in natural sources and day-to-day monitoring of food spoilage

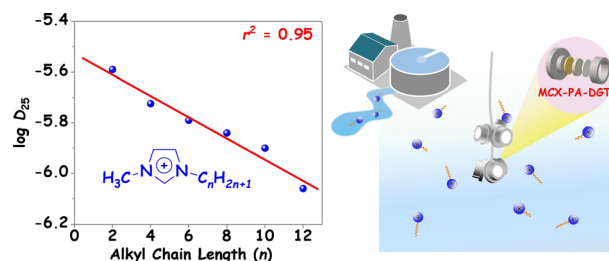
Jhorna Borah, Arati Chetry, Arobinda Kakoti and Prithviraj Khakhary*



7955

Development and validation of diffusive gradients in thin-films for *in situ* monitoring of ionic liquids in waters

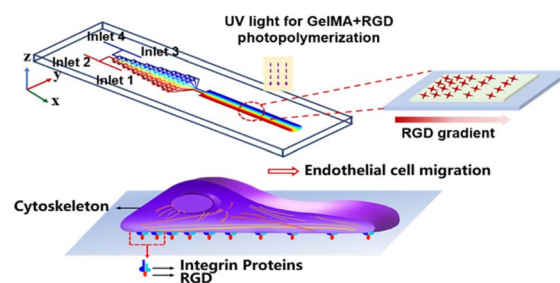
Si-si Liu, Shi-bao Chen, Yu-bo Yue, Xiao-hao Li, Chi Zhang, Guang-Guo Ying and Chang-Er Chen*



7965

Micro-fluidic covalent immobilization of multi-gradient RGD peptides on a gelatin surface for studying endothelial cell migration

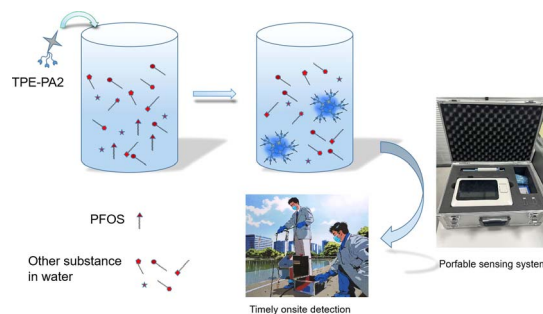
Yunong Yang, Yanxia Wang, Yongjiang Li,* Xuqu Hu, Changgui Tong, Chundong Xue and Kairong Qin*



7977

A portable fluorescence sensing system for timely onsite perfluorooctane sulfonate detection based on an aggregate induced emission fluorescence sensor

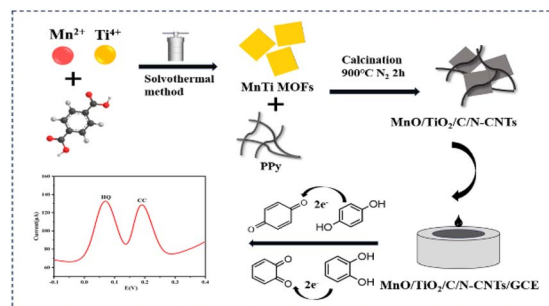
Bin Wang,* Yaning Yu, Rongxu Zhao, Liang Yan, Tingfeng Tan, Peiyao Chen* and Chao Ma*



7985

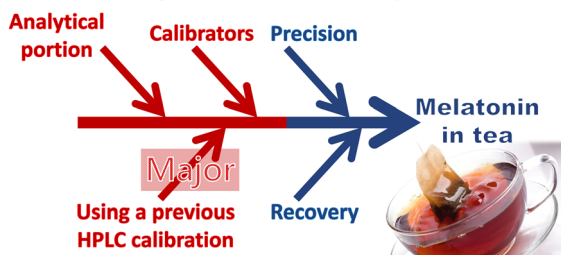
MnO/TiO₂/C/N-CNTs derived from Mn-doped Ti MOFs for simultaneous detection of catechol and hydroquinone

Wenjing Liu, Sumin Xu, Jinjin Zhang and Jianying Qu*



7994

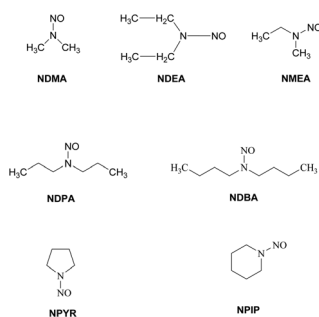
Combining method validation data with the modelling of other uncertainty components



Combining method validation data with additional information for measurement uncertainty evaluation – determination of melatonin content in tea

Lucía Gutiérrez-Fernández, Cristina M. Oliveira, Ana M. Díez-Pascual, María Paz San Andrés and Ricardo J. N. Bettencourt da Silva*

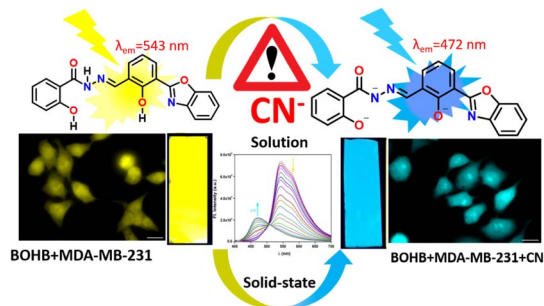
8001



Rapid analysis of *N*-nitrosamines in urine using ultra high-pressure liquid chromatography-mass spectrometry

S. Shinde, K. D. Croft, J. M. Hodgson and C. P. Bondonno*

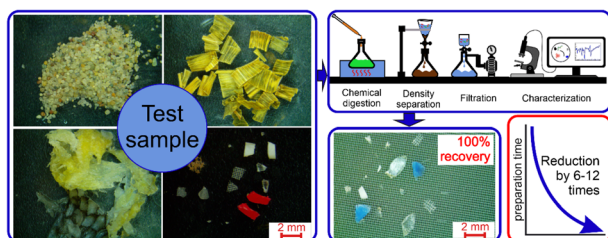
8010



A distinctive and proficient fluorescent switch for ratiometric recognition of the menacing cyanide ion: biological studies on MDA-MB-231 cells

Amitav Biswas, Saswati Gharami,* Atanu Maji, Subhabrata Guha, Gaurav Das, Rahul Naskar and Tapan Kumar Mondal*

8019



The development of an analytical procedure for the determination of microplastics in freshwater ecosystems

Yulia S. Sotnikova,* Elena V. Karpova, Dae Il Song, Dmitriy N. Polovyanenko, Tatiana A. Kuznetsova, Svetlana G. Radionova and Elena G. Bagryanskaya

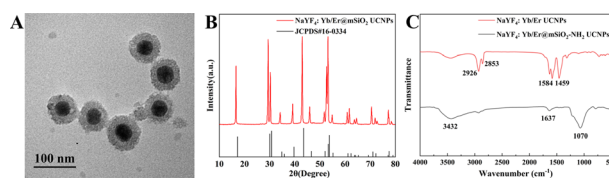


PAPERS

8027

Sensitive and specific detection of trace Al³⁺ ions using an upconversion nanoparticle–xylenol orange complex via the inner filter effect

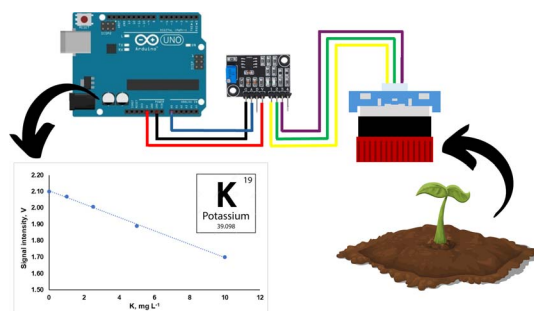
Rui Jiang, Jinfeng Wang, Bin Feng, Panpan Mou, Shuo Zhou, Xianbo Zhang, Yan Zhou, Guosong Chen* and Donghai Lin*



8037

Exploring a low-cost turbidimetric sensor for available potassium determination in soil

Cristian Kelling Pereira, Ana Barbosa Viana, Adrean Arruda Macedo, Renan Buque Pardino, Paula Dalla Vecchia and Valderi Luiz Dressler*



RETRACTIONS

8045

Retraction: Combined microporous membrane-based liquid–liquid–liquid microextraction and *in situ* differential pulse voltammetry for highly sensitive detection of trimipramine

Ali A. Ensafi,* Sedigheh Rabiei, Behzad Rezaei and Mehdi Jafari-Asl

8046

Retraction: *p*-Chloranil modified carbon nanotubes paste electrode as a voltammetric sensor for the simultaneous determination of methyl dopa and uric acid

Hassan Karimi-Maleh,* Mohammad A. Khalilzadeh,* Zahra Ranjbarha, Hadi Beitollahi, Ali A. Ensafi and Daryoush Zareyee

