

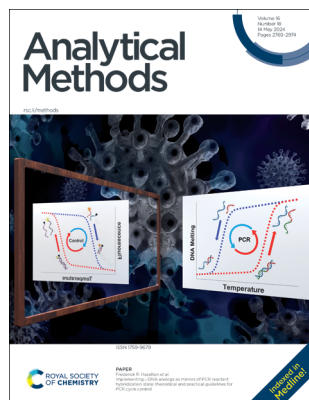
# Analytical Methods

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ISSN 1759-9679 CODEN AMNECT 16(18) 2769–2974 (2024)



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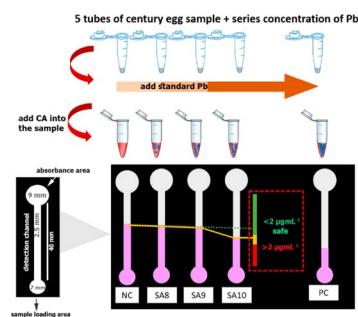
See Frederick R. Haselton *et al.*, pp. 2840–2849. Image reproduced by permission of Nicholas Spurlock from *Anal. Methods*, 2024, **16**, 2840.

## CRITICAL REVIEWS

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### Paper-based sensors: affordable, versatile, and emerging analyte detection platforms

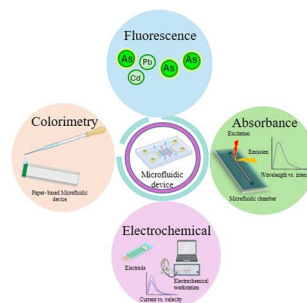
Sumit Malik, Joginder Singh, Kajal Saini, Vivek Chaudhary, Ahmad Umar,\* Ahmed A. Ibrahim, Sheikh Akbar and Sotirios Baskoutas



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### Integrated microfluidic platforms for heavy metal sensing: a comprehensive review

Sharmila Sajankila Nadumane, Rajib Biswas and Nirmal Mazumder\*



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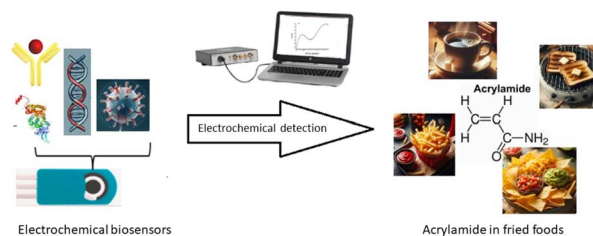


## CRITICAL REVIEWS

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**Acrylamide in food products and the role of electrochemical biosensors in its detection: a comprehensive review**

Alexandra Virginia Bounegru\* and Iulian Bounegru

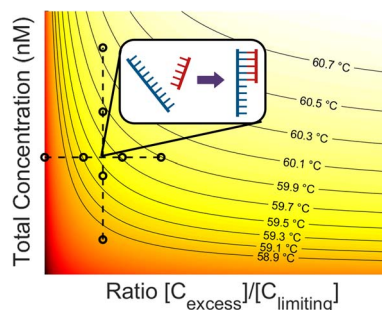


## PAPERS

2840

**Implementing L-DNA analogs as mirrors of PCR reactant hybridization state: theoretical and practical guidelines for PCR cycle control**

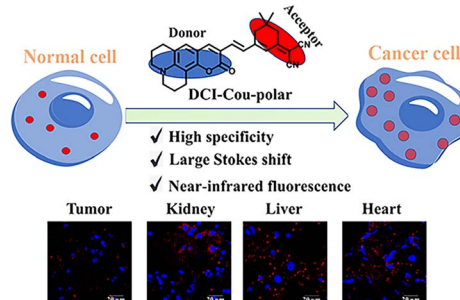
Nicholas Spurlock, William E. Gabella, Dalton J. Nelson, David T. Evans, Megan E. Pask, Jonathan E. Schmitz and Frederick R. Haselton\*



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**A highly selective probe engineered to detect polarity and distinguish normal cells and tumor cells in tissue sections**

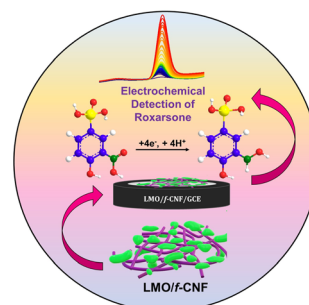
Sai Zhu, Lixuan Dai, Xiaoli Zhong and Weiyang Lin\*

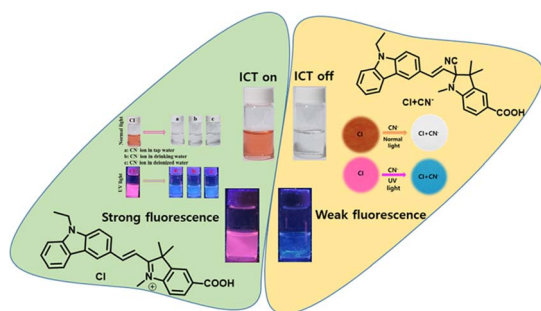


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**Design and fabrication of La-based perovskites incorporated with functionalized carbon nanofibers for the electrochemical detection of roxarsone in water and food samples**

Mariya Antony John Felix, Santhiyagu Sahayaraj Rex Shantlee, Shen-Ming Chen,\* Sundaresan Ruspika, Ramachandran Balaji,\* Narendhar Chandrasekar and Periyannayagam Arockia Doss

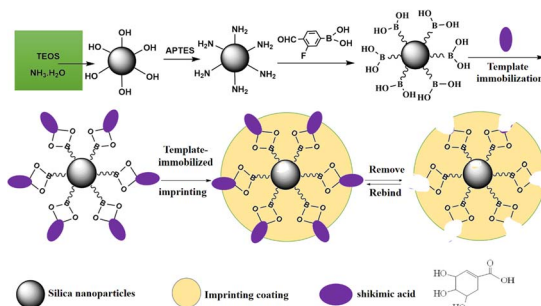




Jayasudha Palanisamy,\* Mansour K. Gatasheh and Ashraf Atef Hatamleh

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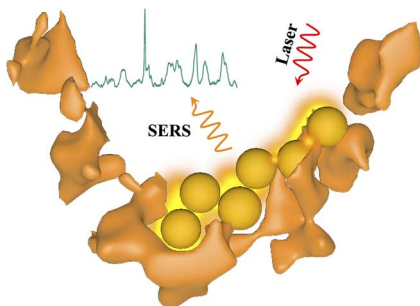
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## Yumin Yang, Daojin Li\* and Bingqian Liu

Yumin Yang, Daojin Li\* and Bingqian Liu

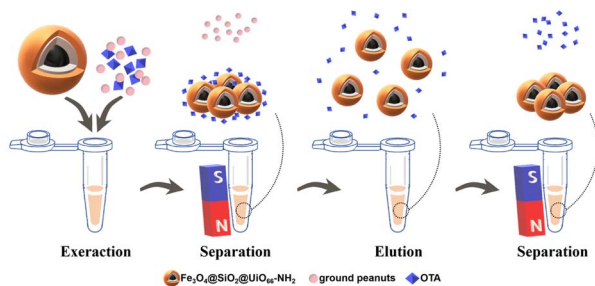
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Yang Xu, Yan Wu, Jianjun Wei,\* Yuanyu Zhao and Peili Xue

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## Bingchen Wang, Yifan Wang, Xiuyuan Zhang and Kuo He\*

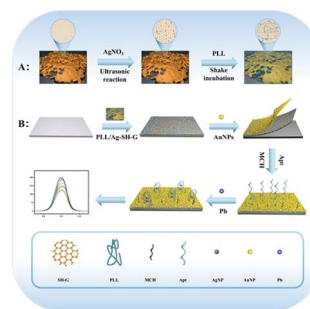
Bingchen Wang, Yifan Wang, Xiuyuan Zhang and Kuo He\*

## PAPERS

2905

# An electrochemical aptasensor based on silver-thiolated graphene for highly sensitive detection of Pb<sup>2+</sup>

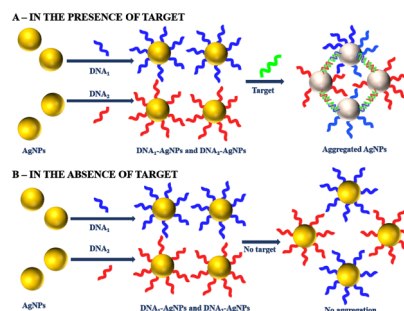
Jie Zhou, Changchun Hu, Shuo Li, Chuanxiang Zhang, Yuan Liu, Zhu Chen, Song Li, Hui Chen and Yan Deng\*



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# A simple and rapid colorimetric detection of *Staphylococcus aureus* relied on the distance-dependent optical properties of silver nanoparticles

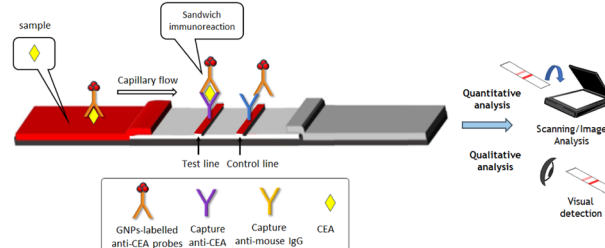
Phan Ngoc Anh Thu, Nguyen Hoang Men, Cam-Duyen Thi Vo, Vo Van Toi and Phuoc Long Truong\*



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# A simplified lateral flow immunosensor for the assay of carcinoembryonic antigen in low-resource settings

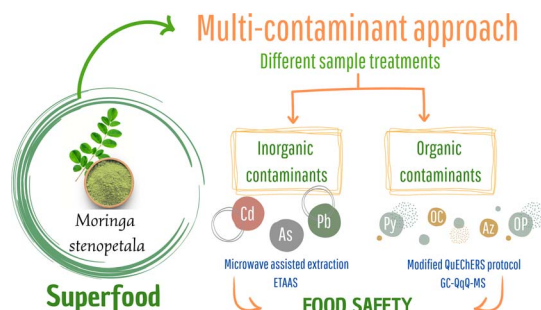
Ioanna Tsogka, Electra Mermiga, Varvara Pagkali, Christos Kokkinos and Anastasios Economou\*



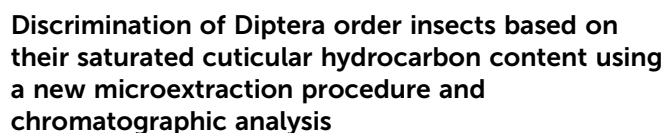
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# Holistic food safety evaluation of herbs: methods for the determination of organic and inorganic trace contaminants in *Moringa stenopetala* as a case study

Ignacio Machado, Natalia Gérez, Analía Bertón, Horacio Heinzen and María Verónica Cesio\*

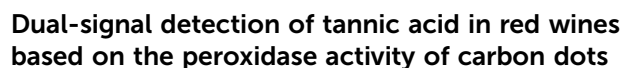






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## CORRECTION

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## Correction: High-resolution magic-angle spinning NMR metabolic profiling with spatially localized spectroscopy under slow sample spinning

Alan Wong