# **Analytical Methods**

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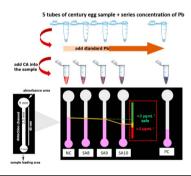
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See Frederick R. Haselton et al., pp. 2840-2849. Image reproduced by permission of Nicholas Spurlock from Anal. Methods, 2024, 16, 2840.

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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



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

Sharmila Sajankila Nadumane, Rajib Biswas and Nirmal Mazumder\*





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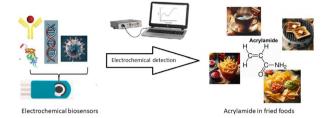


# **CRITICAL REVIEWS**

#### 2824

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

Alexandra Virginia Bounegru\* and Iulian Bounegru

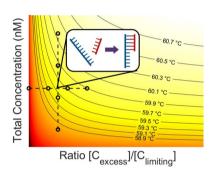


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Implementing L-DNA analogs as mirrors of PCR reactant hybridization state: theoretical and practical guidelines for PCR cycle control

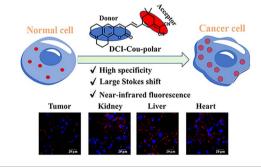
Nicholas Spurlock, William E. Gabella, Dalton J. Nelson, David T. Evans, Megan E. Pask, Jonathan E. Schmitz and Frederick R. Haselton\*



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

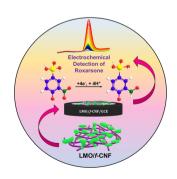
Sai Zhu, Lixuan Dai, Xiaoli Zhong and Weiying Lin\*



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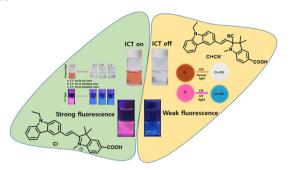
Design and fabrication of La-based perovskites incorporated with functionalized carbon nanofibers for the electrochemical detection of roxarsone in water and food samples

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# **PAPERS**

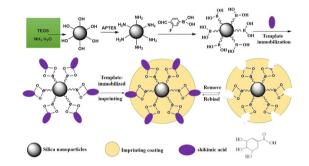
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# A reaction based carbazole—indolium conjugate probe for the selective detection of environmentally toxic ions

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

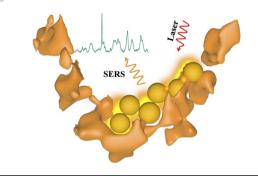
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The preparation of a boronate affinity-based controlled oriented imprinting coating on a silica nanoparticle surface for the separation and purification of shikimic acid in herbal medicine

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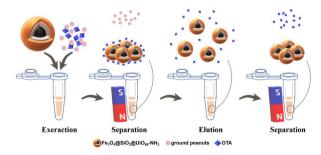
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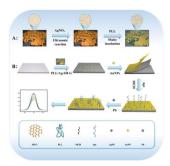
Novel advanced materials and magnetic solid phase extraction as approaches in sample preparation to enhance the analysis of ochratoxin A in peanuts

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

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An electrochemical aptasensor based on silverthiolated graphene for highly sensitive detection of Pb<sup>2+</sup>

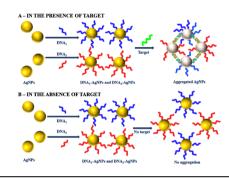
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A simple and rapid colorimetric detection of Staphylococcus aureus relied on the distancedependent optical properties of silver nanoparticles

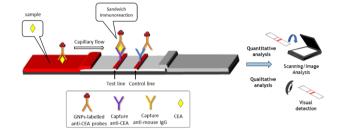
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A simplified lateral flow immunosensor for the assay of carcinoembryonic antigen in low-resource settinas

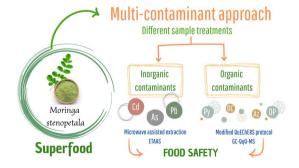
Ioanna Tsogka, Electra Mermiga, Varvara Pagkali, Christos Kokkinos and Anastasios Economou\*



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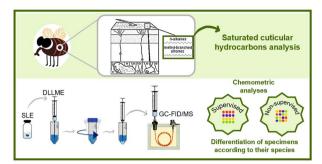
Holistic food safety evaluation of herbs: methods for the determination of organic and inorganic trace contaminants in Moringa stenopetala as a case study

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



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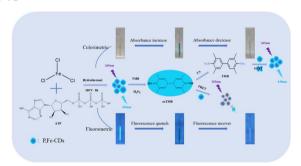
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# Discrimination of Diptera order insects based on their saturated cuticular hydrocarbon content using a new microextraction procedure and chromatographic analysis

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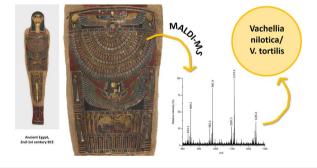
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# Dual-signal detection of tannic acid in red wines based on the peroxidase activity of carbon dots

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# New insight from MALDI-TOF MS and multivariate data analysis on the botanical origin of polysaccharide-based paint binders in ancient Egypt

Clara Granzotto,\* Amra Aksamija, Gerjen H. Tinnevelt, Viktorija Turkina and Ken Sutherland

# CORRECTION

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

Alan Wong