

# Analytical Methods

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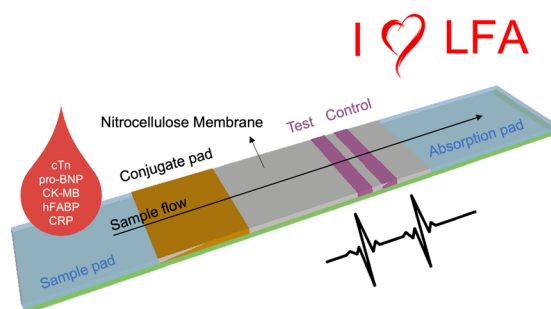
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## CRITICAL REVIEW

3610

### Advancements and future directions in cardiac biomarker detection using lateral flow assays

Stella Schuster da Silva, Mylena Lemes Cunha, Lucas B. Ayres, Carlos D. Garcia\* and Lucas Blanes\*

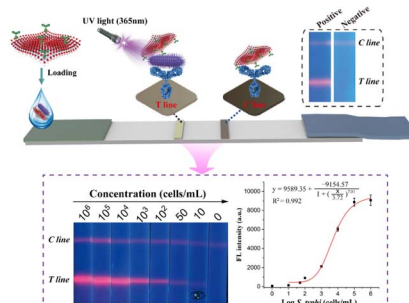


## PAPERS

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### Introduction of a multilayered fluorescent nanofilm into lateral flow immunoassay for ultrasensitive detection of *Salmonella typhimurium* in food samples

Qing Yu, Xuan Xia, Changyue Xu, Wenqi Wang, Shuai Zheng, Chongwen Wang,\* Bing Gu\* and Chaoguang Wang\*



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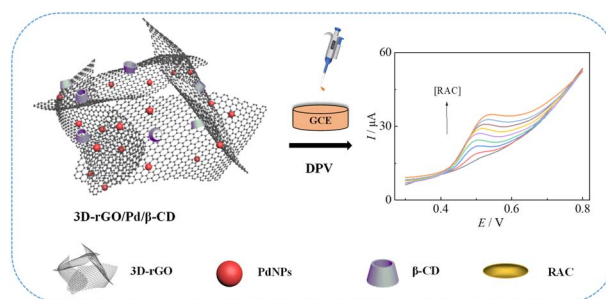


## PAPERS

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### Supramolecular recognition enhanced electrochemical sensing: $\beta$ -cyclodextrin and Pd nanoparticle co-decorated 3D reduced graphene oxide nanocomposite-modified glassy carbon electrode for the quantification of ractopamine

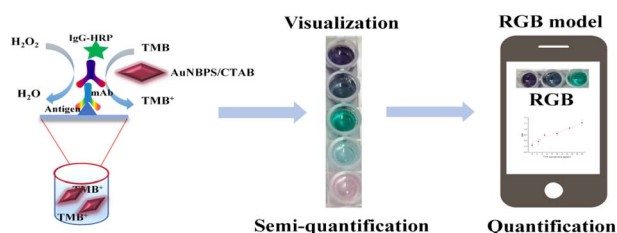
Kai Zhang, Xiaoyuan Zhang, Yanqin Rong,\* Qingfang Niu, Pengyue Jin, Xuewen Ma,\* Cheng Yang and Wenting Liang\*



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### A simple and rapid strategy for monitoring vancomycin concentration in serum using a multicolor immunosensor based on the ratio of gold nanobipyramids and a product of cetyltrimethylammonium bromide-blue oxide of 3,3',5,5'-tetramethylbenzidine interaction

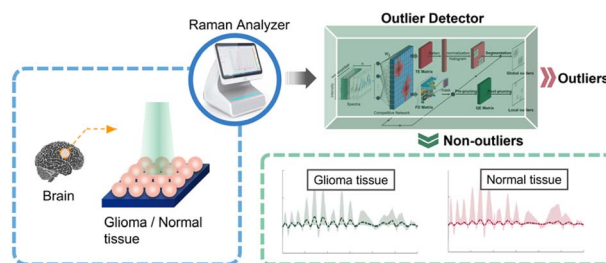
Yanwei Fu, Chunjing Yang, Congmin Liu, Xiqiao Xu, Zhengyuan Shi,\* Dechun Jiang\* and Dan Yan\*



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### An outlier detection algorithm based on segmentation and pruning of competitive network for glioma identification using Raman spectroscopy

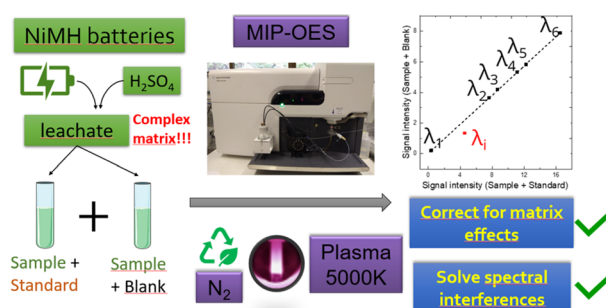
Zhixiang Zhang, Yan Zhou and Qingbo Li\*

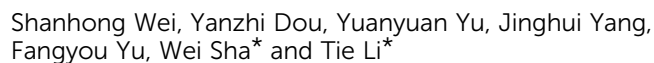


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### Multi-energy calibration for determining critical metals in nickel-metal hydride battery residues by microwave-induced plasma atomic emission spectrometry

Kaïque A. M. L. Cruz, George L. Donati, Fábio R. P. Rocha and Maria C. Hespanhol\*

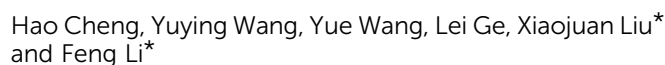




Shanhong Wei, Yanzhi Dou, Yuanyuan Yu, Jinghui Yang,  
Fangyou Yu, Wei Sha\* and Tie Li\*

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Luiz Humberto Marcolino-Junior\* and  
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Márcio Fernando Bergamini\*



Hao Cheng, Yuying Wang, Yue Wang, Lei Ge, Xiaojuan Liu\*  
and Feng Li\*

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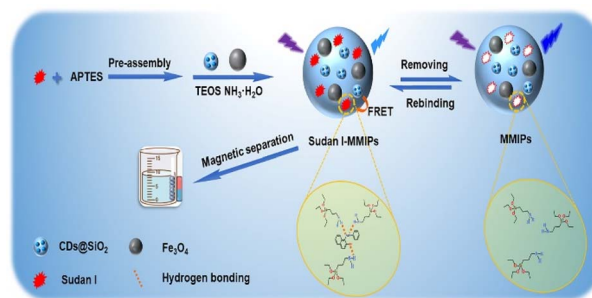


## PAPERS

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### Magnetic molecularly imprinted polymers as a fluorescent sensor for selective detection of Sudan I in chili powder

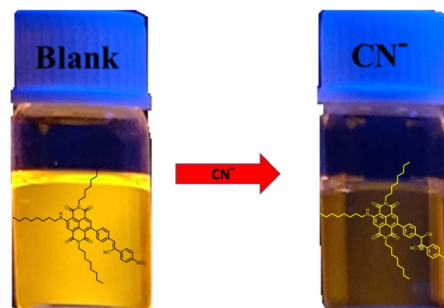
Rui Xu, Jiasheng Lin, Yanjie Wang, Yahan Cui, Lan Ding and Yanhua Chen\*



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### Naphthalenediimide-based nanoarchitectonics for a fluorescent chemosensor with highly selective and sensitive detection of cyanide ions

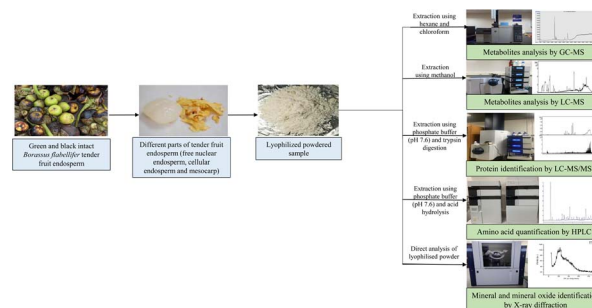
Vilas K. Gawade, Ratan W. Jadhav, Vishnu R. Chari, Rahul V. Hangarge and Sheshanath V. Bhosale\*



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### Metabolite profiling from different parts of tender fruit endosperm of *Borassus flabellifer* L. (ice apple)

Vinduja Vasudevan, Janani Prabakaran, Nagasathya Krishnan, Abinaya K, Subash C. B. Gopinath and Pachiappan Raman\*



## TECHNICAL NOTE

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### An affordable and semiautomated approach as a novel strategy for the extraction of DNA using magnetic ionic liquids followed by real time-polymerase chain reaction

Luiz Carlos Ferreira Neto, Mônica Silva Alves, Janira Prichula, Grasiela Agnes, Tiago Franco de Oliveira, Danielle Trentin and Josias Merib\*

