

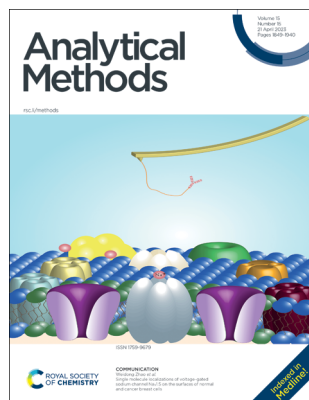
# Analytical Methods

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## IN THIS ISSUE

ISSN 1759-9679 CODEN AMNECT 15(15) 1849–1940 (2023)



### Cover

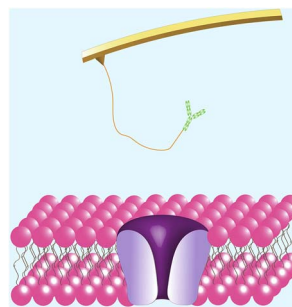
See Weidong Zhao *et al.*, pp. 1855–1860. Image reproduced by permission of Weidong Zhao from *Anal. Methods*, 2023, 15, 1855.

## COMMUNICATION

1855

### Single molecule localizations of voltage-gated sodium channel $\text{Na}_v1.5$ on the surfaces of normal and cancer breast cells

Xinyu Li, Li Zhao, Rongrong Feng, Xiaowei Du, Zelin Guo, Yu Meng, Yulan Zou, Wenchao Liao, Qiyuan Liu, Yaohuan Sheng, Gaowei Zhao, Haijian Zhong\* and Weidong Zhao\*

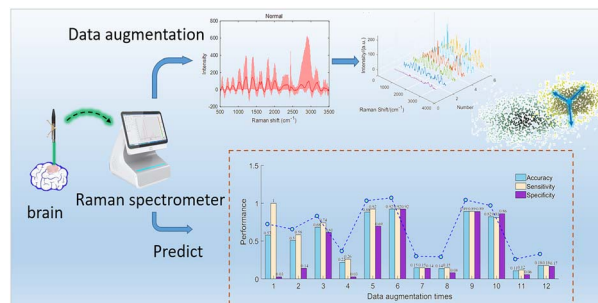


## PAPERS

1861

### Data augmentation method based on the Gaussian kernel density for glioma diagnosis with Raman spectroscopy

Qingbo Li,\* Jianwen Wang and Yan Zhou\*



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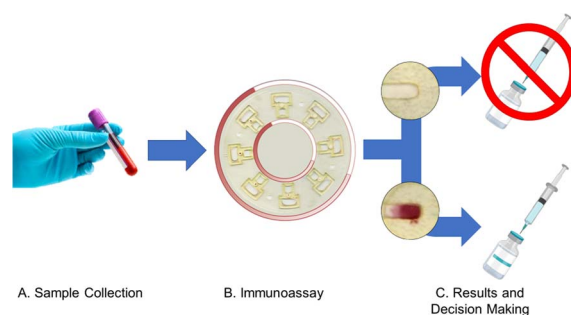


## PAPERS

1870

### Digital image analysis for biothreat detection via rapid centrifugal microfluidic orthogonal flow immunocapture

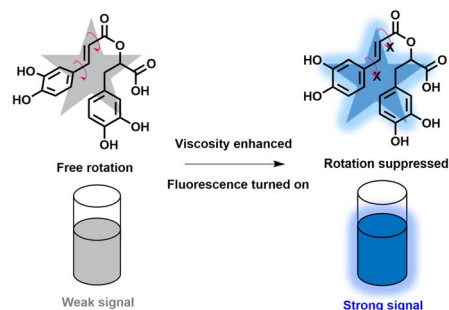
M. Shane Woolf,\* Leah M. Dignan, Scott M. Karas, Hannah M. Lewis, Sabrina N. Kim, Geoffrey M. Geise, Haley L. DeMers, Derrick Hau, Marcellene A. Gates-Hollingsworth, David P. AuCoin and James P. Landers



1881

### Green extract rosemary acid as a viscosity-sensitive molecular sensor in liquid systems

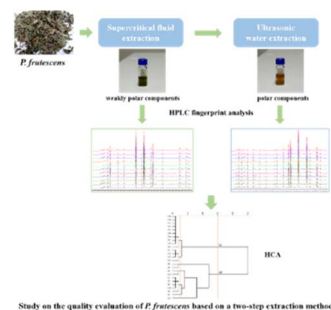
Lingfeng Xu,\* Hui Peng, Yanrong Huang, Chunfang Huang, Chengning Xie and Genhe He\*



1888

### Comprehensive HPLC fingerprint analysis based on a two-step extraction method for quality evaluation of *Perilla frutescens* (L.) Britt

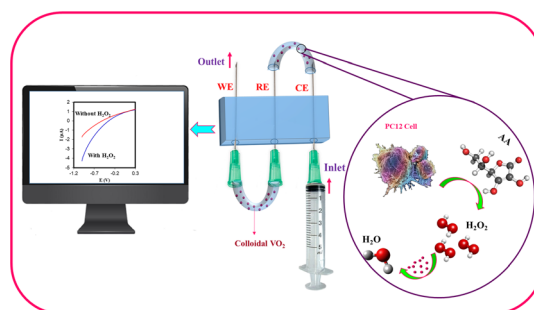
Guanghao Zhou, Yingping Dai, Dandan Ge, Jie Yang, Qing Fu,\* Yu Jin\* and Xinmiao Liang



1896

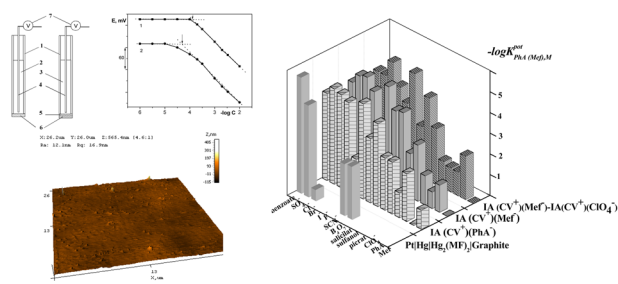
### Electrochemical monitoring of hydrogen peroxide by a signal-amplified microfluidic chip coupled with colloidal VO<sub>2</sub> nanostructures as a peroxidase enzyme mimic

Negar Alizadeh and Abdollah Salimi\*



## PAPERS

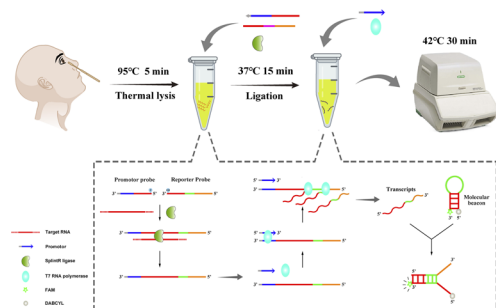
1903



### Design and application of potentiometric sensors for the determination of mefenamic and phenylanthranilic acids

Zholt Kormosh,<sup>\*</sup> Yuriy Khalavka and Susheel K. Mittal<sup>\*</sup>

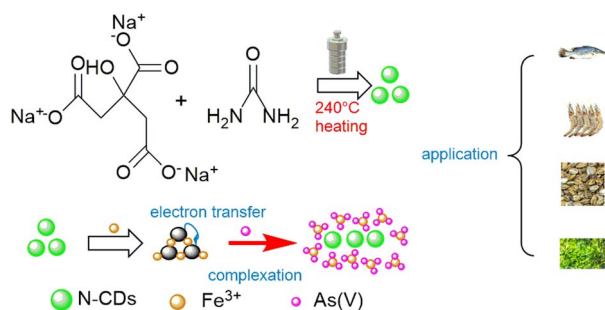
1915



### Real-time detection of SARS-CoV-2 in clinical samples via ultrafast ligation-dependent RNA transcription amplification

Peng Zhang, Yang Li, Dongmei Zhang, Xinghao Zhu, Jinling Guo, Cuiping Ma and Chao Shi<sup>\*</sup>

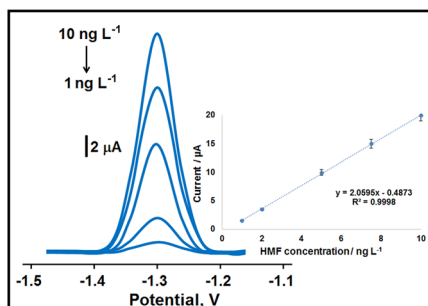
1923



### Nitrogen-doped carbon dots/Fe<sup>3+</sup>-based fluorescent probe for the "off-on" sensing of As(v) in seafood

Zeyi Li, Yunrui Cao, Tingyu Feng, Tingting Wei, Changhu Xue, Zhaojie Li and Jie Xu<sup>\*</sup>

1932



### Graphene quantum dots incorporated NiAl<sub>2</sub>O<sub>4</sub> nanocomposite based molecularly imprinted electrochemical sensor for 5-hydroxymethyl furfural detection in coffee samples

Hatice Ebrar Turan, Hilal Medetalibeyoglu, İlknur Polat, Bahar Bankoğlu Yola, Necip Atar and Mehmet Lütfi Yola<sup>\*</sup>