

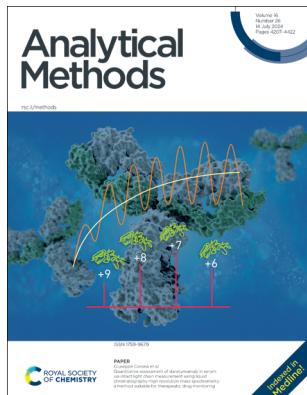
# Analytical Methods

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## IN THIS ISSUE

ISSN 1759-9679 CODEN AMNECT 16(26) 4207–4422 (2024)



### Cover

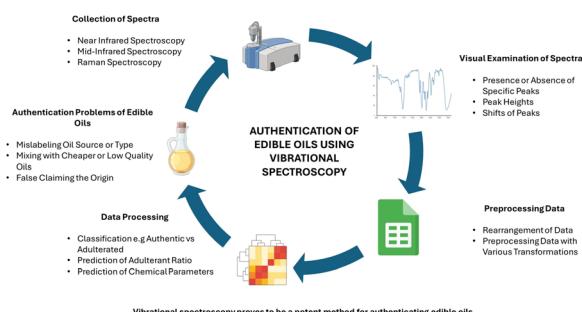
See Giuseppe Corona et al., pp. 4240–4246. Image reproduced by permission of Giuseppe Corona from *Anal. Methods*, 2024, 16, 4240.

## CRITICAL REVIEW

4216

### Trends in authentication of edible oils using vibrational spectroscopic techniques

Banu Ozen,\* Cagri Cavdaroglu and Figen Tokatli

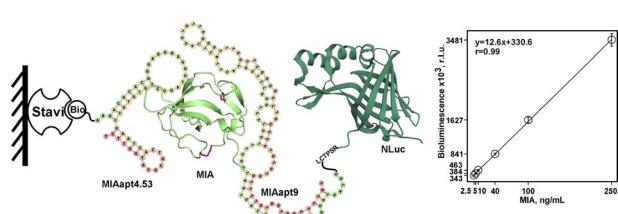


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### Bioluminescent aptamer-based microassay for detection of melanoma inhibitory activity protein (MIA)

Eugenia E. Bashmakova,\* Alexander N. Kudryavtsev, Alexey E. Tupikin, Marsel R. Kabilov, Aleksey E. Sokolov and Ludmila A. Frank



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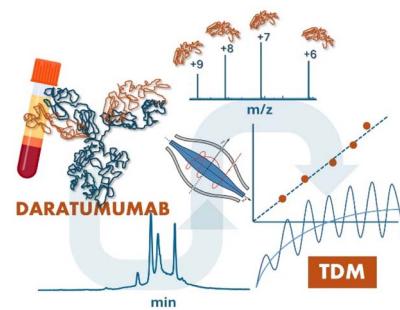
Fundamental questions  
Elemental answers

## PAPERS

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**Quantitative assessment of daratumumab in serum via intact light chain measurement using liquid chromatography-high resolution mass spectrometry: a method suitable for therapeutic drug monitoring**

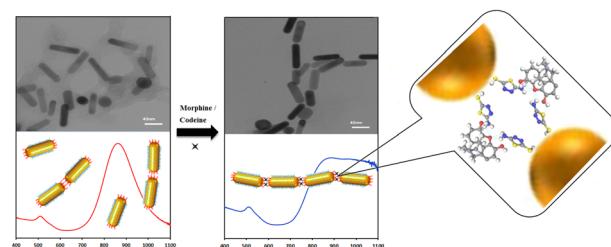
Giovanni Canil, Gianmaria Miolo, Mariapaola Simula, Maurizio Rupolo, Agostino Steffan and Giuseppe Corona\*



4247

**A near-infrared plasmonic biosensor for detection of morphine and codeine in biological samples based on the end-to-end assembly of modified gold nanorods**

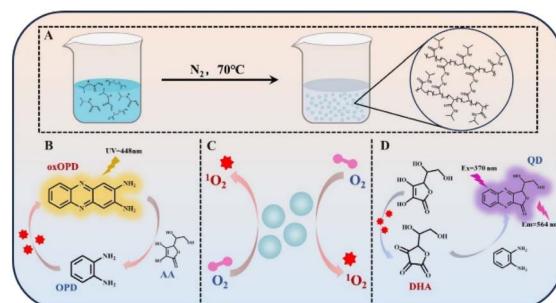
Naimeh Mohseni and Morteza Bahram\*



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**The preparation and dual-mode detection of ascorbic acid based on poly(*N*-isopropylacrylamide) nanogel with oxidase-like activity**

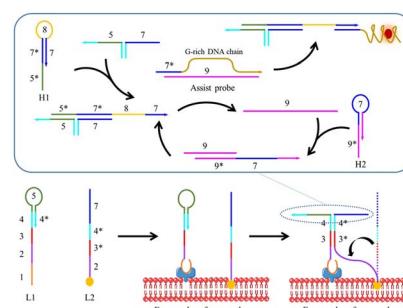
Yuhan Zhang, Qinze Liu,\* Qian Lu,\* Zhi-zhou Yang, Sheng Gao and Xian Zhang\*



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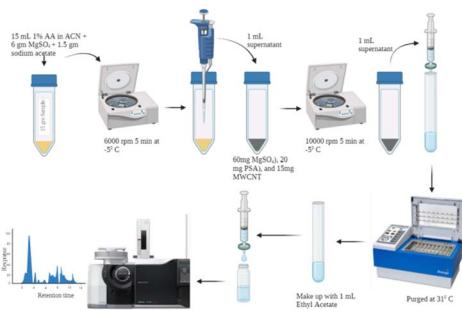
**A proximity ligation hybridization triggered structure-switching based signal amplification strategy for sensitive and accurate exosome detection**

Wendi Yang, Jing Yang, Na Zhou\* and Yali Wang\*



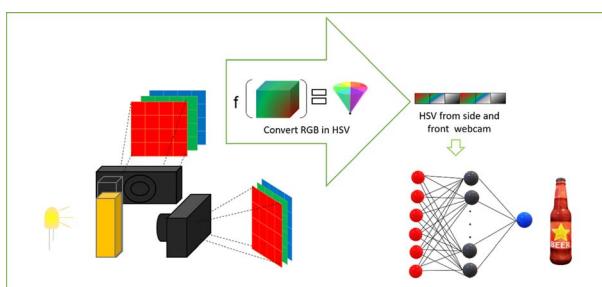
## PAPERS

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**Multivariate optimization and validation of 200 pesticide residues in the banana matrix by GC-MS/MS**

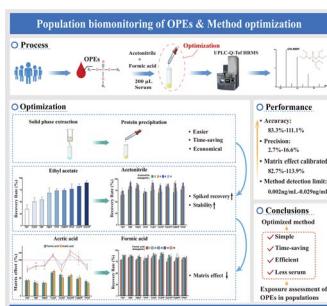
Tushar Rajaram Ahire, Rupal Rajesh Thasale, Ankita Das, Nikhil Pradip Kulkarni, Dhyan Mineshkumar Vyas and Sivaperumal Perumal\*

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**Computer vision with artificial intelligence for a fast, low-cost, eco-friendly and accurate prediction of beer styles and brands**

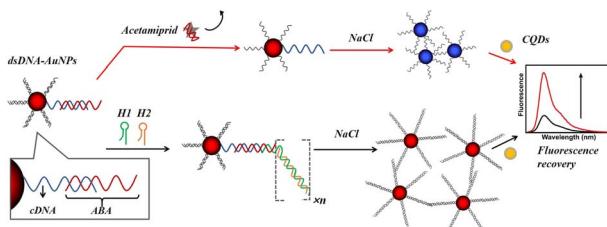
João Victor de Sousa Dutra, Maiara Oliveira Salles, Ricardo Cunha Michel and Daniella Lopez Vale\*

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**Organophosphate esters in human serum: a relatively simple and efficient liquid chromatography-mass spectrometry method**

Zhiyuan Du, Xiaoyi Wei, Xiaohua Hu, Yijing Zhao, Guanghua Chen, Xiushuai Du, Jialing Li,\* Ming Zhan\* and Weiwei Zheng\*

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**Enhanced detection of acetamiprid via a gold nanoparticle-based colorimetric aptasensor integrated with a hybridization chain reaction**

Xingyi Liu, Mingming Li, Hao Wang and Limin Yang\*

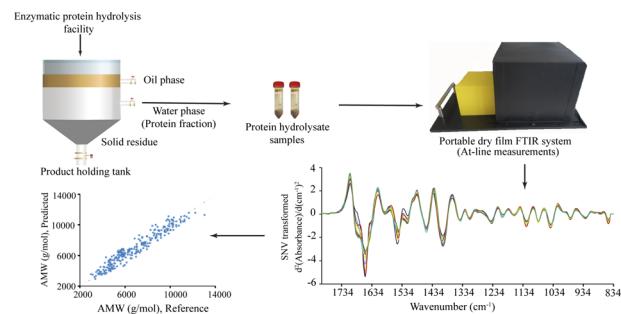


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**A portable dry film FTIR instrument for industrial food and bioprocess applications**

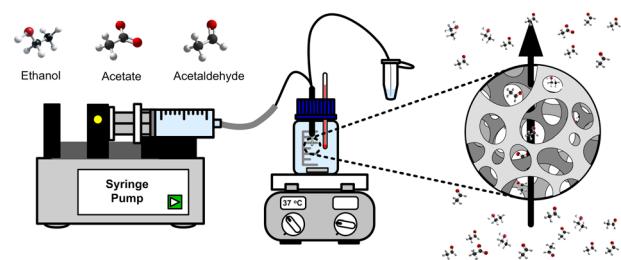
Bijay Kafle,\* Sileshi Gizachew Wubshet, Kari Anne Hestnes Bakke, Ulrike Böcker, Marion O'Farrell, Katinka Dankel, Ingrid Måge, Jon Tschudi, Dimitrios Tzimorotas, Nils Kristian Afseth and Tim Dunker



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**Experimental and numerical investigation of microdialysis probes for ethanol metabolism studies**

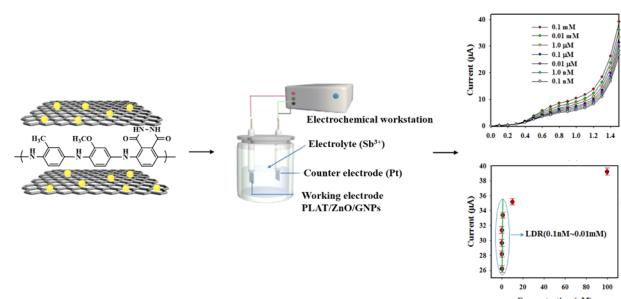
Tse-Ang Lee, Jessie Peng, Divjot Walia, Rueben Gonzales and Tanya Hutter\*



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**Development of an efficient electrochemical sensing platform based on ter-poly(luminol-o-anisidine-o-toluidine)/ZnO/GNPs nanocomposites for the detection of antimony ( $Sb^{3+}$ ) ions**

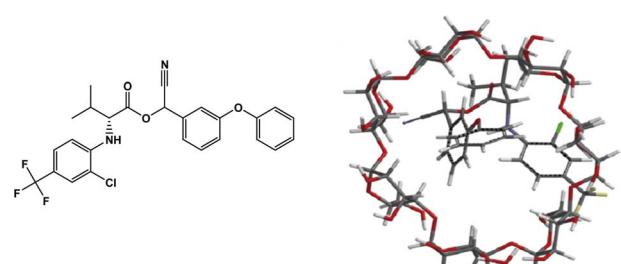
Salsabeel Al-Sodies, Abdullah M. Asiri, M. M. Alam, Khalid A. Alamry, Mohammed M. Rahman\* and Mahmoud A. Hussein\*



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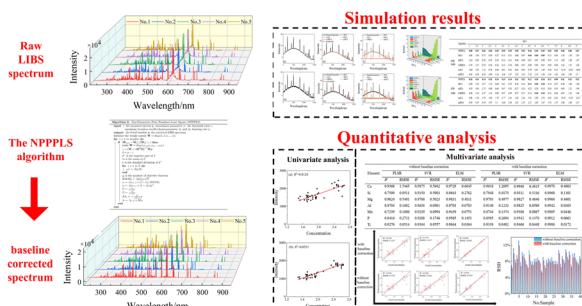
**Cyclodextrin-enhanced photo-induced fluorescence of tau-fluvalinate, molecular modelling of inclusion complexes and determination in natural waters**

El Hadji Tombé Bodian, Coumba Faye, Diène Diégane Thiaré, Ndye Arame Diop, Pape Abdoulaye Diaw, François Delattre, Atanasse Coly and Philippe Giamarchi\*



## PAPERS

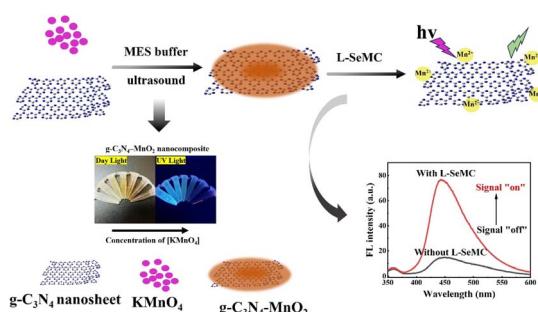
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### A LIBS spectrum baseline correction method based on the non-parametric prior penalized least squares algorithm

Shengjie Ma, Shilong Xu,\* Youlong Chen, Zhenglei Dou, Yuhao Xia, Wanying Ding, Jiajie Dong and Yihua Hu\*

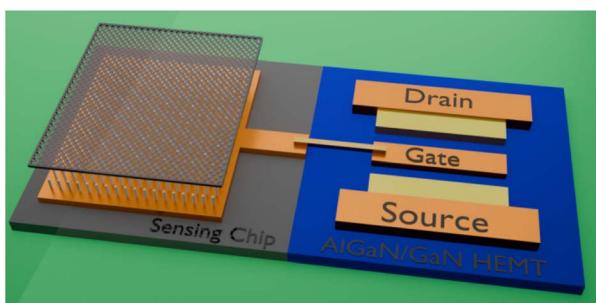
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### Highly selective fluorescence detection of L-selenomethionine-methylselenocysteine in selenium-enriched *Cardamine violifolia*

Xiaoran Shi, Hui Zhao, Han Zhang, Qunfang Li and Fangming Lou\*

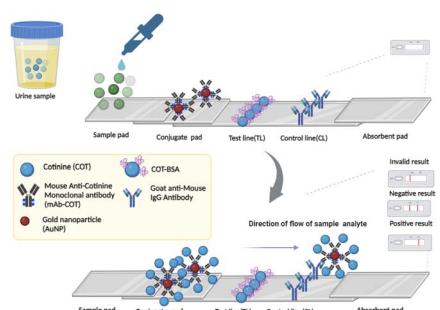
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### A salivary urea sensor based on a microsieve disposable gate AlGaN/GaN high electron mobility transistor

Guo Yang, Boxuan Xu, Hui Chang, Zhiqi Gu\* and Jiadong Li\*

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### Development in competitive immunoassay of a point-of-care testing for cotinine (COT) detection in urine

Suthinee Konziw, Paweena Tunakhun, Sawinee Ngernpimai, Oranee Srichaiyapol, Patcharee Boonsiri, Patcharaporn Tippayawat, Anchalee Techasen, Pornsuda Maraming, Kiattawee Choowongkomon, Sakda Daduang, Limthong Promdee\* and Jureerut Daduang\*

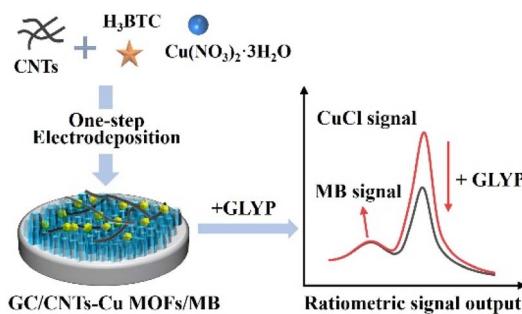


## PAPERS

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## One-step electrodeposition of MWCNTs-Cu MOF films for the ratiometric electrochemical analysis of glyphosate

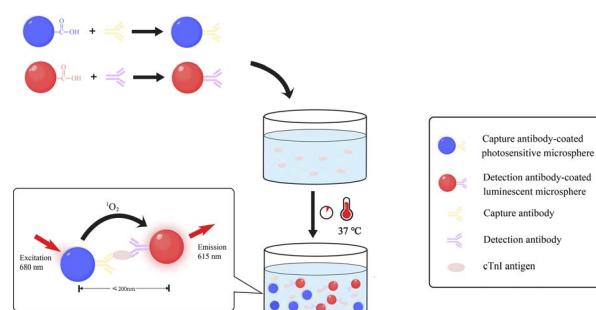
Fan Zhao,\* Dongqing Guo, Jingyue Lan and Yunxi Liu



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## Establishment of a microspheres-based homogeneous fluorescence immunoassay for the rapid detection of cardiac troponin I

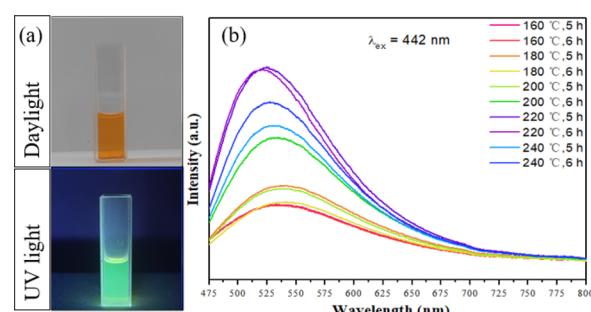
Yan Tang, Fuzhong Chen, Wei Lv, Zixuan Zhou, Yulin Fu, Yuan Qin, Xueqin Zhao,\* Junhong Wang\* and Biao Huang\*



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## Detection of sulphur(II) of carbon dots synthesized from *Gardenia* residue

Zhaoxia Li, Yuchuan Dong, Xinyi Li, Dongchun Li, Jia Dong, Panchen Wang, Shuwei Chen\* and Huiling Geng\*



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## A home-made nanoporous gold microsensor for lead(II) detection in seawater with high sensitivity and anti-interference properties

Renato Soares de Oliveira Lins, Anandhakumar Sukeri\* and Mauro Bertotti\*

