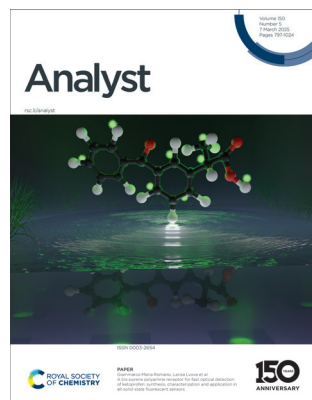


## IN THIS ISSUE

ISSN 0003-2654 CODEN ANALAO 150(5) 797-1024 (2025)



### Cover

See Giammarco Maria Romano, Larisa Lvova *et al.*, pp. 806–818.

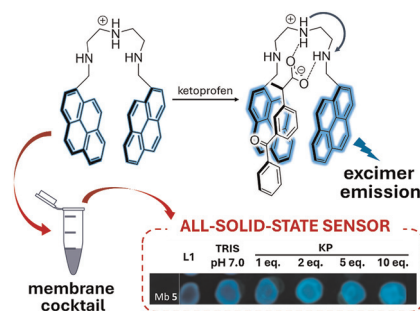
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## PAPERS

806

### A bis-pyrene polyamine receptor for fast optical detection of ketoprofen: synthesis, characterization and application in all-solid-state fluorescent sensors

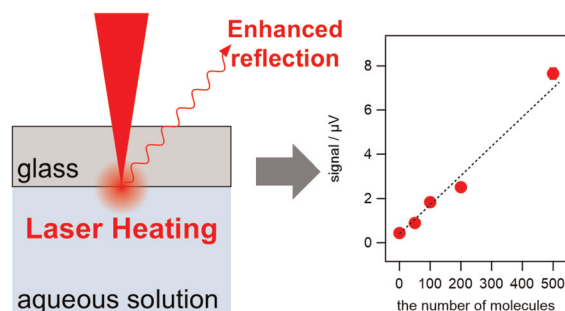
Giammarco Maria Romano,\* Pierangela Di Menna, Andrea Bencini, Yshtar Tecla Simonini Steiner, Massimo Innocenti, Corrado Di Natale, Roberto Paolesse and Larisa Lvova\*



819

### Sensitive detection of nonfluorescent solutes in small amounts of dilute aqueous solutions through photothermally induced reflectivity modulation at glass/aqueous solution interfaces

Shu-hei Urashima\* and Ryoji Kusaka



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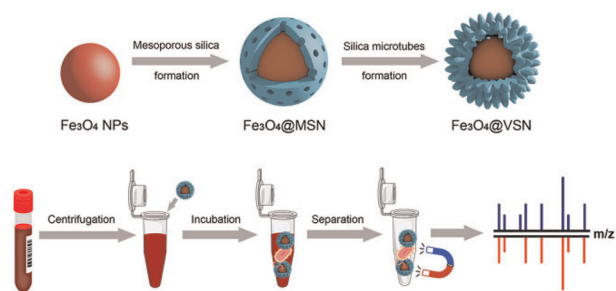


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827

### Rapid identification of pathogenic bacteria from clinical positive blood cultures *via* virus-like magnetic bead enrichment and MALDI-TOF MS profiling

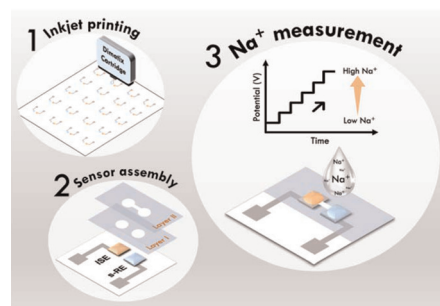
Zhirou Zhang, Enyun Xing, Wenzhuo Zhao, Minghui Song, Cuiping Zhang, Hong Liu, Xiaomin Li\* and Hongxiu Yu\*



841

### Polymeric hydrogel integrated paper-based potentiometric ion-sensing device for the determination of sodium ions in human urine

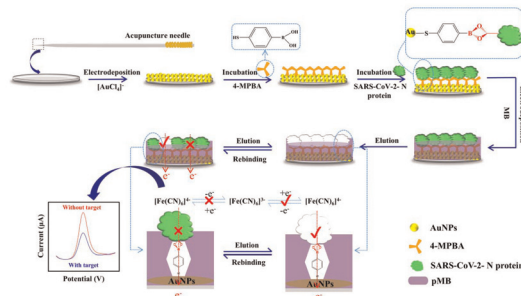
Kanyapat Teekayupak, Pattarachaya Preechasedkit, Natthaya Chuaypen, Thasinas Dissayabutra, Peter A. Lieberzeit, Orawon Chailapakul,\* Nipapan Ruecha\* and Daniel Citterio\*



851

### An electrochemical microsensor of the SARS-CoV-2 nucleocapsid protein based on a surface-imprinted acupuncture needle

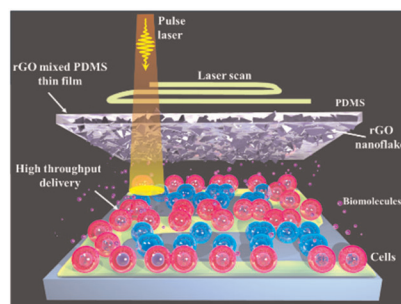
Yan Liu, Xue Kong, Yi Zhang, Xiumei Zhou\* and Zheng-Zhi Yin\*



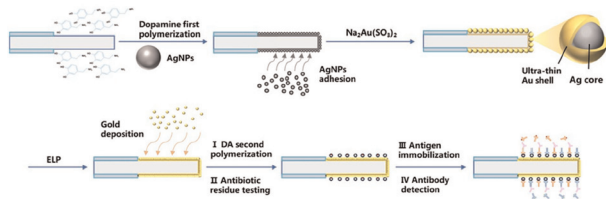
860

### Light-activated nanocomposite thin sheet for high throughput contactless biomolecular delivery into hard-to-transfect cells

Hima Harshan Padma, Donia Dominic, Kavitha Illath, Srabani Kar and Tuhin Subhra Santra\*



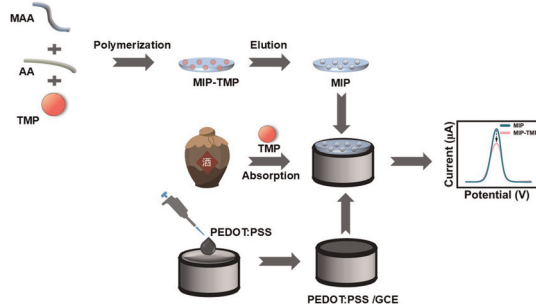
877



### An Au–Ag@Au fiber surface plasmon resonance sensor for highly sensitive detection of fluoroquinolone residues

Qiang Xu, Huiting Yin,\* Ze Zhao, Mei Cui, Renliang Huang and Rongxin Su\*

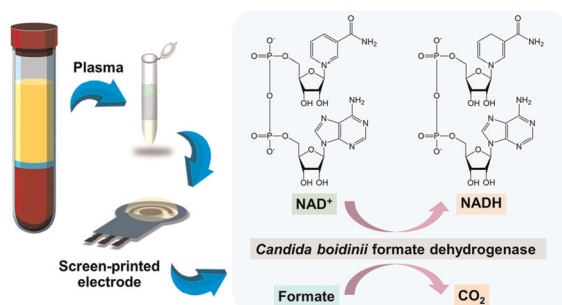
887



### Molecularly imprinted electrochemical sensor to sensitively detect tetramethylpyrazine in Baijiu

Yating Rui, Jianfeng Wu, Qunyong Tang, Juan Pu, Wanpeng Wang and Shou-Nian Ding\*

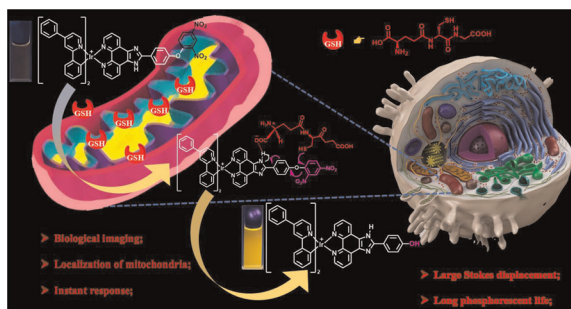
894



### Bioanalytical method for NAD<sup>+</sup> detection in blood plasma utilizing solution-phase *Candida boidinii* formate dehydrogenase and electrochemical detection

Wichit Taron, Tharinda Kasemphong, Pachanuporn Sunon, Keerakit Kaewket, Nuntaporn Kamonsutthipajit, James R. Ketudat-Cairns, Gun Bhakdisongkhram, Warut Tulalamba, Supakmongkon Sanguansuk, Vip Viprakasit and Kamonwad Ngamchuea\*

905



### A mitochondria-targeted iridium(III) complex-based sensor for endogenous GSH detection in living cells

Sha Xu, Qikai Ju, Xueting Mao, Tangxuan Cai and Daobin Zhang\*

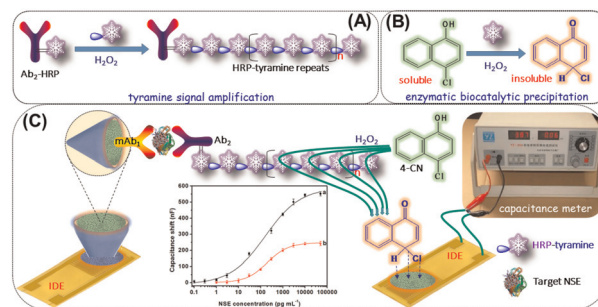


## PAPERS

914

### Tyramine–enzyme conjugate repeats for an interdigitated capacitance immunosensing array in the detection of neuroblastoma biomarker neuron-specific enolase

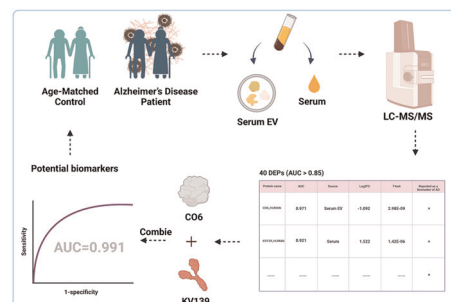
Xianchen Hu, Yali Xu, Yuexi Lin, Xinghe Chen\* and Junshan Lin\*



922

### A comprehensive view of the molecular features within the serum and serum EV of Alzheimer's disease

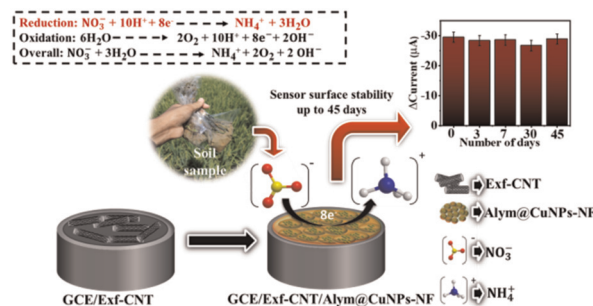
Jiayi Zhang, Xiaoqin Cheng, Anqi Hu, Xin Zhang, Meng Zhang, Lei Zhang, Jiawei Dai, Guoquan Yan, Huali Shen\* and Guoqiang Fei\*



936

### A non-enzymatic highly stable electrochemical sensing platform based on allylamine capped copper nanoparticles for the detection of the soil nitrate content

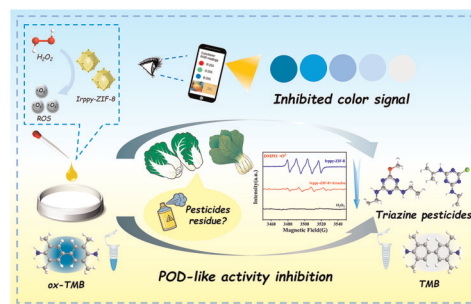
Bimalendu Mukherjee, Mukti Mandal, Raghav Raghavender Suresh, Shantanu Kar, Binaya Kumar Parida, Somsubhra Chakraborty and Gorachand Dutta\*



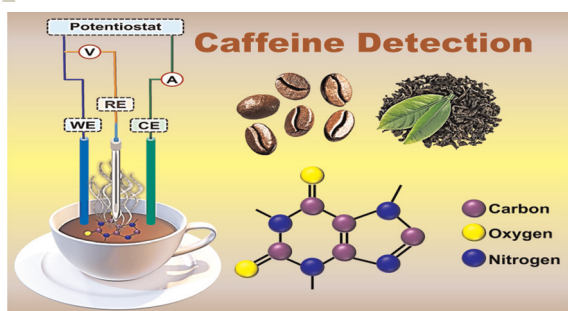
953

### Iridium(III) complex functionalized ZIF-8 as a novel POD-like nanozyme for visual assay of triazine pesticides

Fangming Zhu, Yibo Zhao, Chenji Dai, Yaoyao Xu and Yuyang Zhou\*



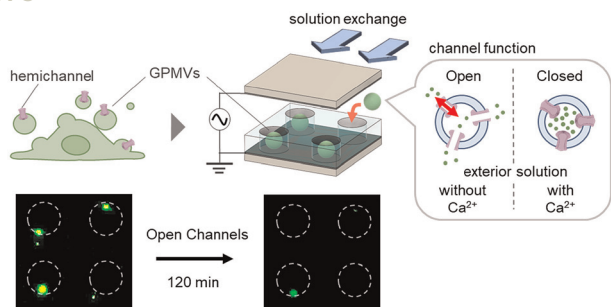
962



### An electrochemical bio-electronic tongue based on borophene/PPy@ITO hybrid for selective caffeine identification

Shahzad Ahmed,\* Arshiya Ansari,\* Bibekananda De, Subrata Mukherjee, Devendra Singh Negi\* and Pranay Ranjan\*

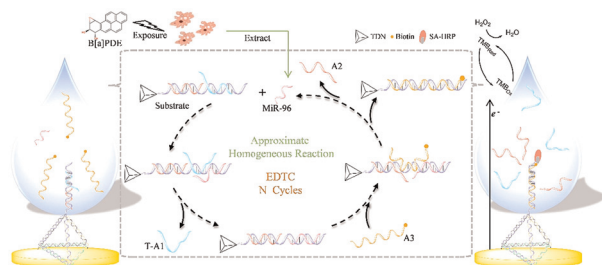
975



### Rapid assessment of the gate function and membrane properties of connexin-embedded giant plasma membrane vesicles in a microwell array

Ryu Eguchi, Yushi Isozaki, Masato Suzuki and Tomoyuki Yasukawa\*

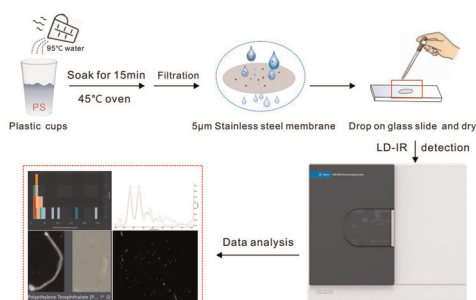
982



### Integrating an entropy-driven DNA circuit with a tetrahedral scaffold as a generic *in situ* electrochemical biosensor for amplified detection of microRNAs

Xuyao Wang,\* Junlan Zhu, Peng Shu, Jiajing Wang, Maowen Huang, Hengchao Chen and Haifen Ma

989



### Identification and characterization of microplastics released during the actual use of disposable cups using laser direct infrared imaging

Shanshan Du,\* Ziyang Liu, Lei Wu and Fangbiao Tao

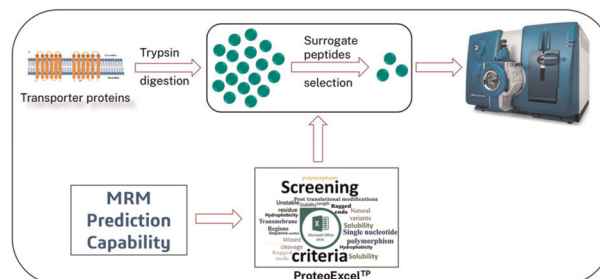


## PAPERS

998

### Highly sensitive LC-MRM workflow for quantitation of efflux transporters in rat peripheral blood mononuclear cells: leveraging ProteoExcel<sup>TP</sup> with MRM prediction capability

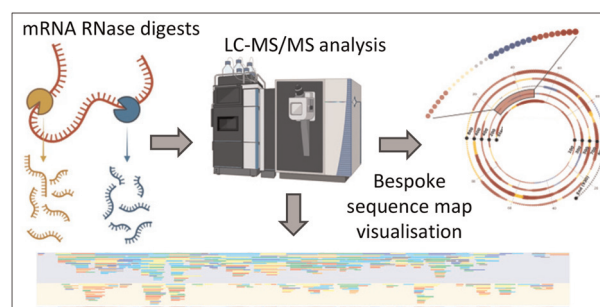
Tarang Jadav, Niraj Rajput and Pinaki Sengupta\*



1012

### Mass spectrometry-based mRNA sequence mapping via complementary RNase digests and bespoke visualisation tools

Emma N. Welbourne, Royce J. Copley, Gareth R. Owen, Caroline A. Evans, Kesler Isoko, Ken Cook, Joan Cordiner, Zoltán Kis, Peyman Z. Moghadam and Mark J. Dickman\*



## CORRECTION

1022

### Correction: Infrared spectromicroscopy of biochemistry in functional single cells

Luca Quaroni\* and Theodora Zlateva

