

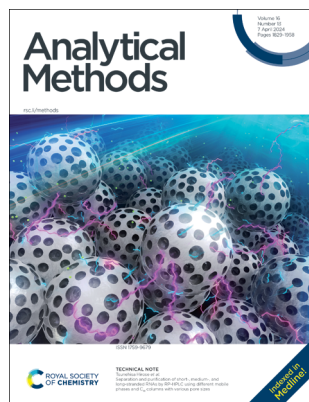
# Analytical Methods

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## IN THIS ISSUE

ISSN 1759-9679 CODEN AMNECT 16(13) 1829–1958 (2024)



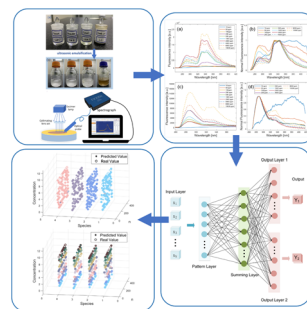
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See Tsunehisa Hirose *et al.*,  
pp. 1948–1956. Image  
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NACALAI TESQUE, Inc., for  
*Anal. Methods*, 2024, **16**, 1948.

## PAPERS

1836

### Mineral oil emulsion species and concentration prediction using multi-output neural network based on fluorescence spectra in the solar-blind UV band

Bowen Gong, Shilei Mao, Xinkai Li and Bo Chen\*



1846

### A ratiometric fluorescent probe with a large Stokes shift for the detection of Hg<sup>2+</sup> and its applications in environmental sample and living system analysis

Jixiang Tian, Xuechun Tian, Shuai Gong, Yueyin Liang, Zhiyuan Meng, Weiqi Liu, Xu Xu, Zhonglong Wang\* and Shifa Wang\*



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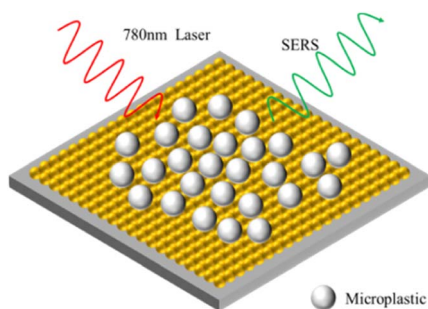
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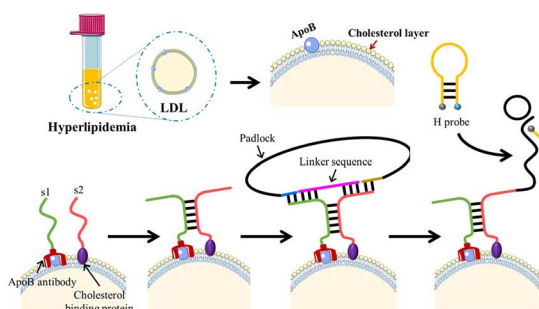
1887



### Quantitative analysis of microplastics in seawater based on SERS internal standard method

Zhigang Di, Jianxin Gao, Jinxin Li, Hao Zhou and Chunrong Jia\*

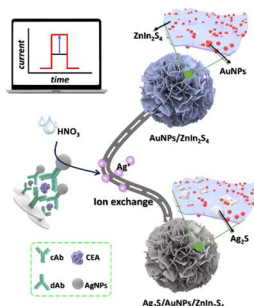
1894



### Accurate and sensitive low-density lipoprotein (LDL) detection based on the proximity ligation assisted rolling circle amplification (RCA)

Xingyu Zhang, Jie Li, Mei Yang, Hong Huang, Hao Wang and Hongmin Zhang\*

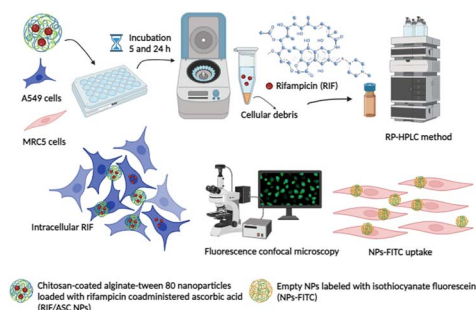
1901



### Split-type photoelectrochemical immunoassay for sensitive quantification of carcinoembryonic antigen based on target-induced *in situ* formation of Z-type heterojunction

Jianhui Zhang, Meirong Tan, Qian Chen, Kangyao Zhang,\* Qian Zhou,\* Wenqiang Lai and Dianping Tang

1908



### Quantification of rifampicin loaded into inhaled polymeric nanoparticles by reversed phase high-performance liquid chromatography in pulmonary nonphagocytic cellular uptake

Ivana Romina Scolari, Benjamín De La Cruz-Thea, Melina Mara Musri and Gladys Ester Granero\*

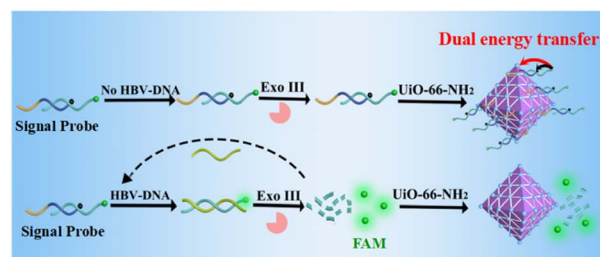
Chitosan-coated alginate-tween 80 nanoparticles loaded with rifampicin coadministered ascorbic acid (RIF/ASC NPs) Empty NPs labeled with isothiocyanate fluorescein (NPs-FITC)



1916

### MOF-mediated dual energy transfer nanoprobe integrated with exonuclease III amplification strategy for highly sensitive detection of DNA

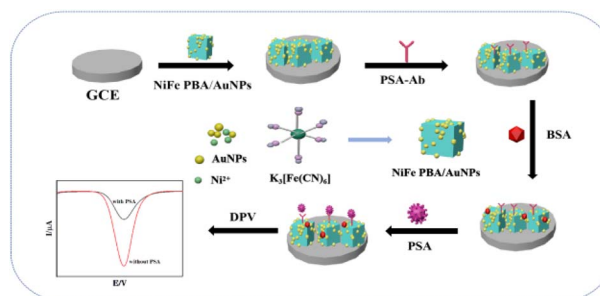
Xiaojing Xing,<sup>\*</sup> Mengying Gao, Minglin Lei, Kunqi Cheng, Yifan Zhao, Xianchao Du, Luyi Zong, Dongfang Qiu<sup>\*</sup> and Xueguo Liu<sup>\*</sup>



1923

### A NiFe PBA/AuNPs nanocomposite sensitive immunosensor for electrochemical detection of PSA

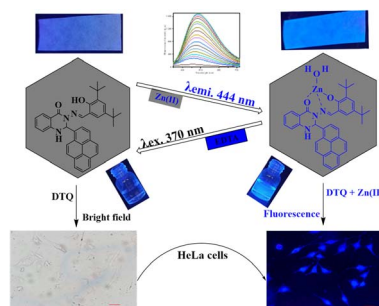
Xin Hua, Tongxiao Zhao, Xueqin Gui and Baokang Jin<sup>\*</sup>



1934

### A pyrene-induced PET-based chemosensor for biologically important Zn(II) ions: application in test strips and live cell imaging studies

Chethanakumar, Mahantesh B. Budri, Kalagouda B. Gudasi,<sup>\*</sup> Ramesh S. Vadavi,<sup>\*</sup> Mallikarjun K. Patil, Vijay M. Kumbar and Sanjeev R. Inamdar



## TECHNICAL NOTE

1948

### Separation and purification of short-, medium-, and long-stranded RNAs by RP-HPLC using different mobile phases and C<sub>18</sub> columns with various pore sizes

Makoto Ozaki, Tomomi Kuwayama, Motoshi Shimotsuma and Tsunehisa Hirose<sup>\*</sup>

