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Analytical Methods

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IN THIS ISSUE

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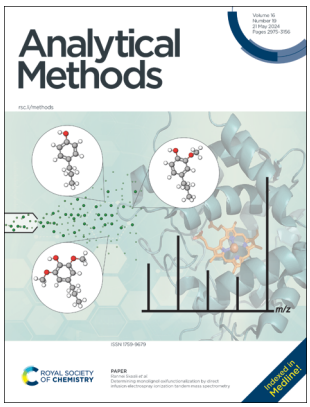


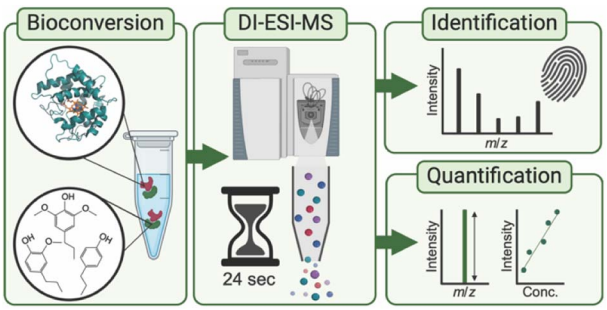
Cover
See Rannei Skaali *et al.*, pp. 2983–2996. Image reproduced by permission of Rannei Skaali from *Anal. Methods*, 2024, **16**, 2983.

PAPERS

2983

Determining monolignol oxifunctionalization by direct infusion electrospray ionization tandem mass spectrometry

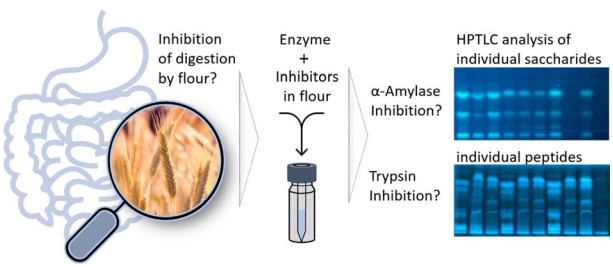
Rannei Skaali,* Hanne Devle, Katharina Ebner, Dag Ekeberg and Morten Sørlie



2997

Screening of α-amylase/trypsin inhibitor activity in wheat, spelt and einkorn by high-performance thin-layer chromatography

Isabel Müller, Bianca Schmid, Loredana Bosa and Gertrud Elisabeth Morlock*



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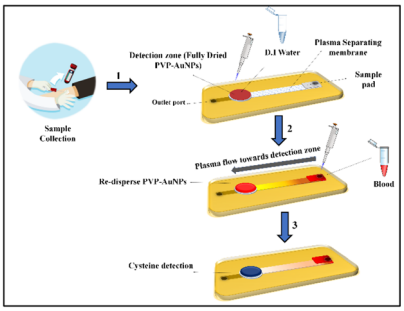
PAPERS

3007

A paper-based point-of-care device for the detection of cysteine using gold nanoparticles from whole blood

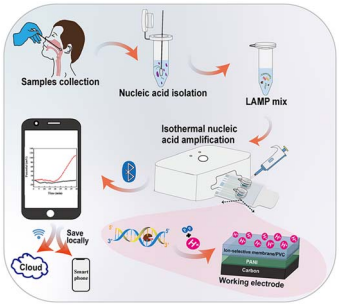
Monika Kumari, Natish Kumar, Sunny Kumar, Shivani Gandhi, Eyal Zussman and Ravi Kumar Arun*



3020

A LAMP-based hydrogen ion selective electrochemical sensor for highly sensitive detection of *Mycoplasma pneumoniae*

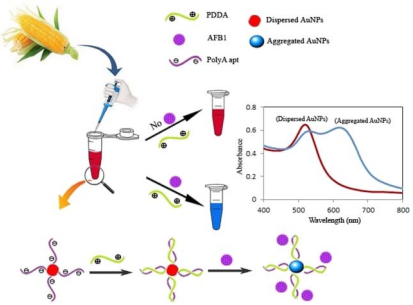
Huiqing Wang, Yang Li, Lin Tian, Xinyi Li, Qian Gao, Yaru Liu, Cuiping Ma, Qing Wang* and Chao Shi*



3030

Development of a label-free, sensitive gold nanoparticles–poly(adenine) aptasensing platform for colorimetric determination of aflatoxin B1 in corn

Omid Heydari Shayesteh,* Katayoun Derakhshandeh, Akram Ranjbar, Reza Mahjub and Abbas Farmany



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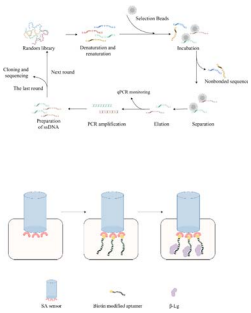
A rapid and sensitive aptamer-based biosensor for beta-lactoglobulin in milk

Anqi Liu, Meng Jiang, Yuyin Wu, Han Guo, Ling Kong, Zhiwei Chen* and Zhaofeng Luo*



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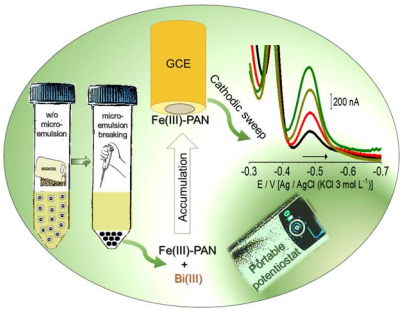

A simple, fast and inexpensive approach to quantify low concentrations of iron in biodiesel by voltammetry after extraction induced by microemulsion breaking

Cristian H. Krause, Alexandre B. Schneider,* Leandro Kolling, Lauren T. T. Oliveira and Márcia M. da Silva

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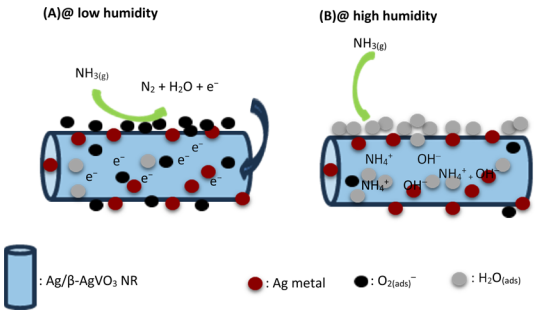

Preparation and NH_3 gas-sensing properties of Ag/β-$AgVO_3$ nanorods

Pi-Guey Su* and Jia-Jie Yang

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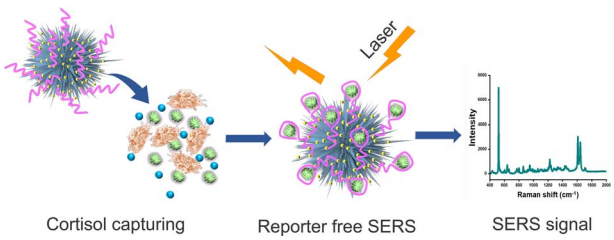

Aptamer-aided plasmonic nano-urchins for reporter-free surface-enhanced Raman spectroscopy analysis of cortisol

Chengyu Li, Jing Hu, Nan Hu, Jianjun Zhao, Qianwen Li, Yanhui Han, Yanxiong Liu, Xufang Hu,* Liyan Zheng* and Qiue Cao*

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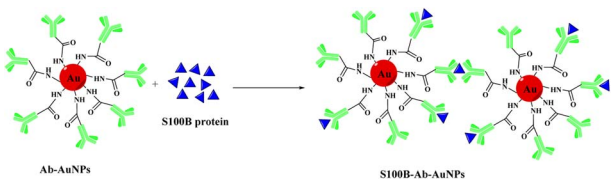

Antibody-labeled gold nanoparticle based resonance Rayleigh scattering detection of S100B

Wang Tiantian, Wang Yonghui and Li Junbo*

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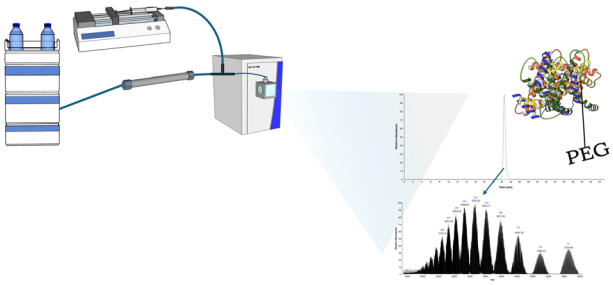
Dimethyl sulfoxide as a gas phase charge-reducing agent for the determination of PEGylated proteins' intact mass

Øystein Skjærvø,* Alyssa Togle, Haley Sutton, Xuemei Han and Navin Rauniyar



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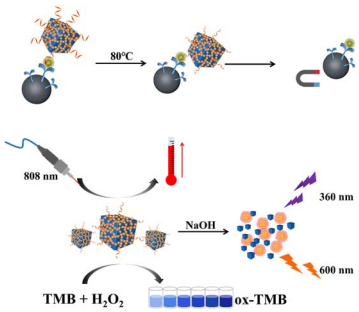
A multimode biosensor based on prussian blue nanoparticles loaded with gold nanoclusters for the detection of aflatoxin B1

Zhaodi Fu, Juan Huang, Wei Wei, Zhihui Wu* and Xingbo Shi*



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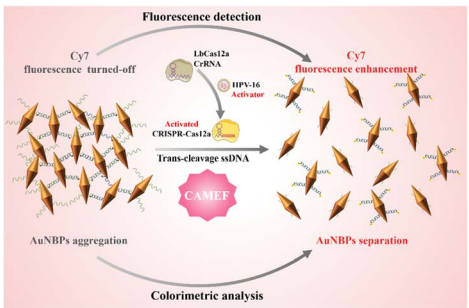
Detection of free DNA based on metal-enhanced fluorescence triggered by CRISPR-Cas12a and colorimetric analysis

Mingqiu Zheng, Yuyao Li, Liling Zhang, Chengyu Li, Menghan Liu and Hongwu Tang*



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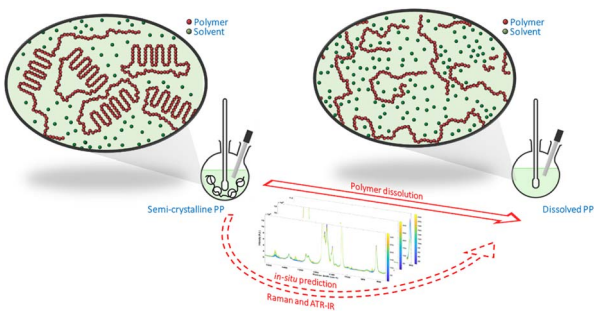
***In situ* dissolved polypropylene prediction by Raman and ATR-IR spectroscopy for its recycling**

Sofiane Ferchichi, Nida Sheibat-Othman,* Olivier Boyron, Charles Bonnin, Sébastien Norsic, Maud Rey-Bayle* and Vincent Monteil*



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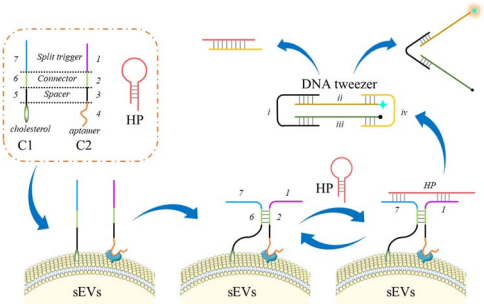

Proximity hybridization based "turn-on" DNA tweezers for accurate and enzyme-free small extracellular vesicle analysis

Jinlin Wu, Xi Mei, Xiaoqin Zhan, Fang Liu and Dongfang Liu*

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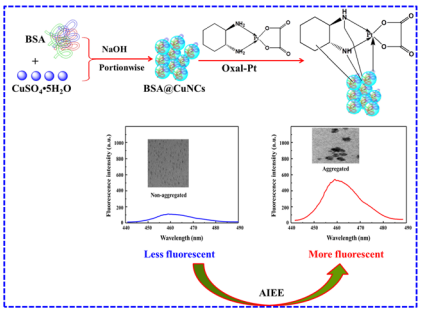

Enhanced fluorescent detection of oxaliplatin *via* BSA@copper nanoclusters: a targeted approach for cancer drug monitoring

Yahya S. Alqahtani, Ashraf M. Mahmoud, Hossieny Ibrahim and Mohamed M. El-Wekil*

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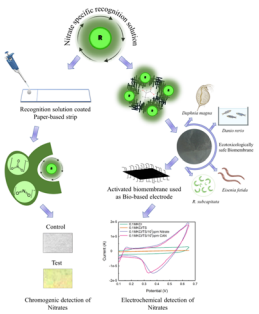

A polylactic acid–carbon nanofiber-based electro-conductive sensing material and paper-based colorimetric sensor for detection of nitrates

Pawankumar Rai, Srishti Mehrotra, Krishna Gautam, Rahul Verma, Sadasivam Anbumani, Satyakam Patnaik, Smriti Priya and Sandeep K. Sharma*

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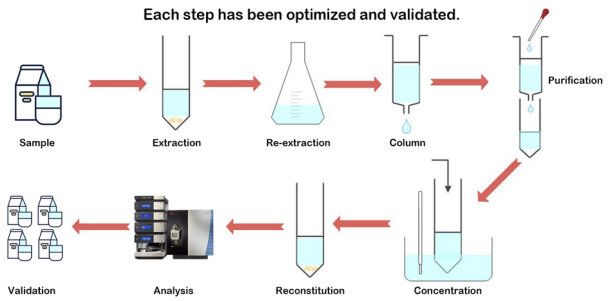

Solid phase extraction technology combined with UPLC-MS/MS: a method for detecting 20 β-lactamase antibiotics traces in goat's milk

Xiwen He, Ming Li, Qi Yu, Wuyan Liu, Shufang Sun, Xiang Li, Zhaohua Wang, Xiaohuan Yan and Songli Li*

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