

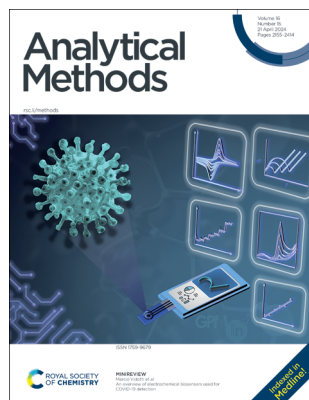
Analytical Methods

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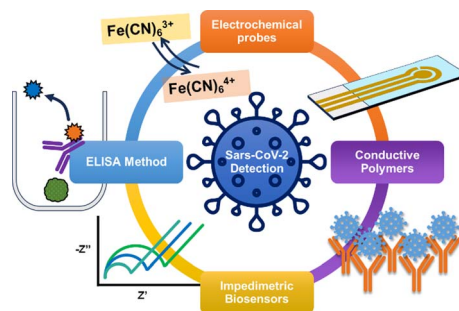
See Marcio Vidotti *et al.*, pp. 2164–2176. Image reproduced by permission of Marcio Vidotti from *Anal. Methods*, 2024, 16, 2164.

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An overview of electrochemical biosensors used for COVID-19 detection

Tatiana Lima Valerio, Raquel Anastácio, Stella Schuster da Silva, Carolina Camargo de Oliveira and Marcio Vidotti*

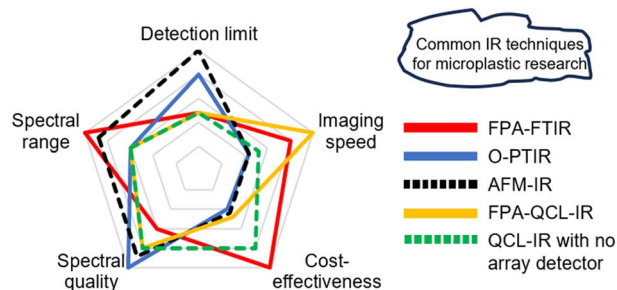


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Analysing micro- and nanoplastics with cutting-edge infrared spectroscopy techniques: a critical review

Junhao Xie,* Aoife Gowen, Wei Xu and Junli Xu



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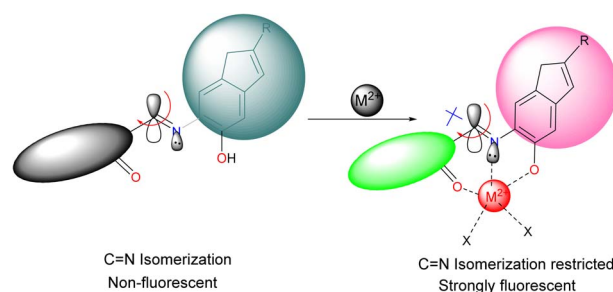
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Advancements in the development of fluorescent chemosensors based on C=N bond isomerization/modulation mechanistic approaches

Arpna Tamrakar, Manzoor Ahmad Wani, Gargi Mishra, Ankur Srivastava, Rampal Pandey* and Mrituanjay D. Pandey*

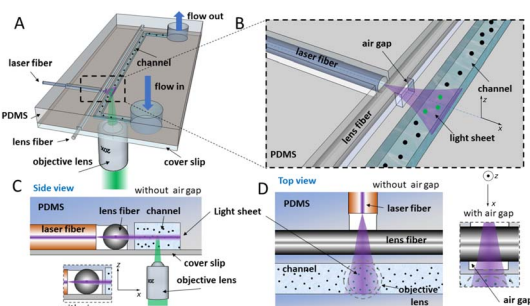


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On-chip light sheet illumination for nanoparticle tracking in microfluidic channels

Théo Travers, Gaétan Delhay, Martinus H. V. Werts, Denis Gindre and Matthieu Loumaigne*

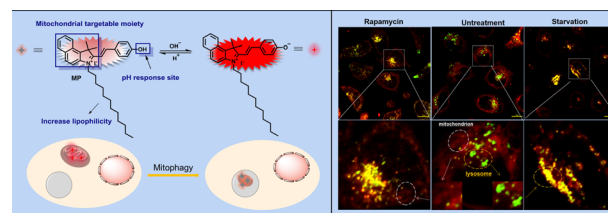


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A pH-response-based fluorescent probe for detecting the mitophagy process by tracing changes in colocalization coefficients

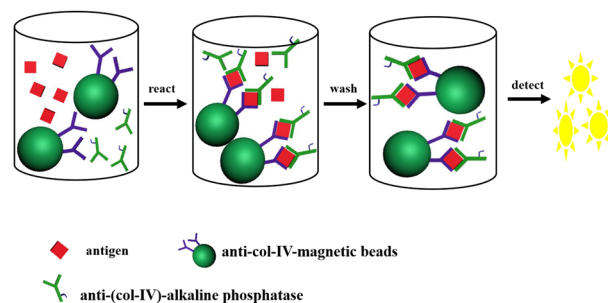
Nongyi Hao, Zekun Jiang, Lina Zhou, Xiaoyu Dai* and Xiuqi Kong*



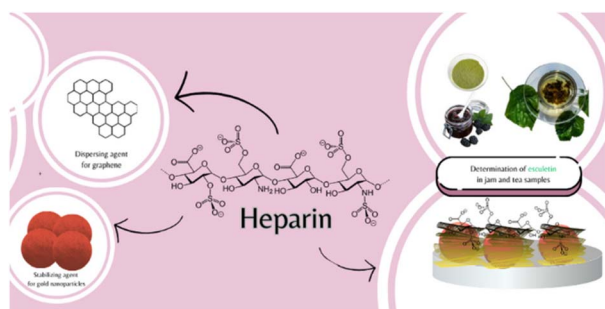
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A chemiluminescence immunoassay for type IV collagen as a promising marker for liver fibrosis and cirrhosis

Xiaoling Fu, Fan Zhang, Fangda Zhen, Lian Duan, Jian Zhou and Jianguo Ma*



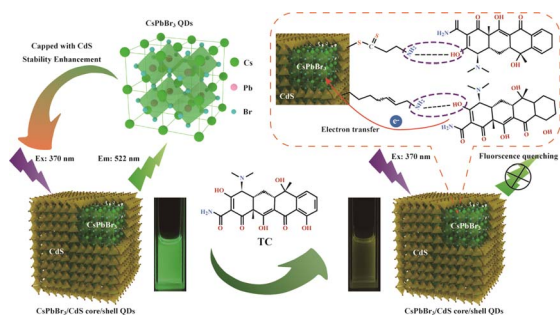
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Heparin-stabilized gold nanoparticles embedded in graphene for the electrochemical determination of esculetin

Vinicius José da Silva, Luan Gabriel Baumgarten, Juliana Priscila Dreyer, Edson Roberto Santana, Almir Spinelli, João Paulo Winiarski* and Iolanda Cruz Vieira*

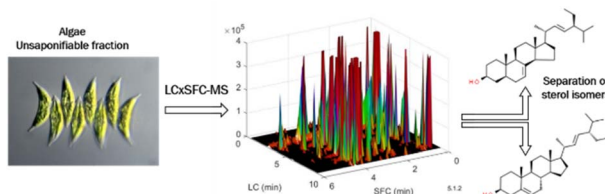
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Construction of a stable fluorescent sensor based on CsPbBr₃/CdS core/shell quantum dots for selective and sensitive detection of tetracycline in ethanol

Yang He, Yangjie Li, Han Wang, Site Luo and Haihu Yu*

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Resolving phytosterols in microalgae using offline two-dimensional reversed phase liquid chromatography-supercritical fluid chromatography coupled with quadrupole time-of-flight mass spectrometry

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Direct solid sample analysis of low-cost jewelry using spectroanalytical techniques: exploratory chemical data evaluation and metal migration with synthetic sweat

Thaila Lorena de Araújo, Fabiola Manhas Verbi Pereira and Edenir Rodrigues Pereira-Filho*

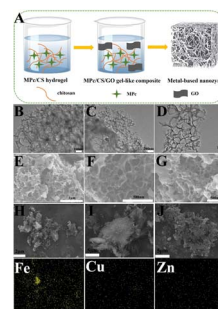


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A three-dimensional network structure of metal-based nanozymes for the construction of colorimetric sensors for the detection of antioxidants

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Solvation effect enabled visualized discrimination of multiple metal ions

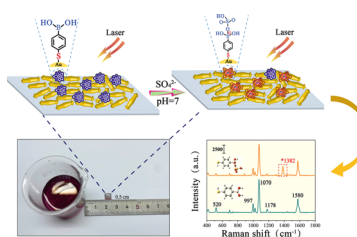
Yang Cheng, Yuan Liu,* Jiguang Li, Yudong Li, Da Lei, Dezhong Li and Xincun Dou*



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Phenylboronic acid modification-based novel dumbbell-shaped Au–Ag nanorod SERS substrates for ultrasensitive detection of SO_4^{2-}

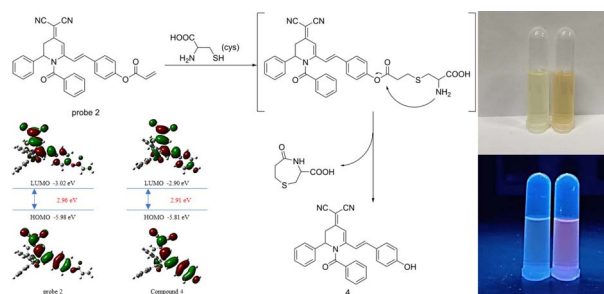
Kang Shen, Caili Bi, Haifan Yang, Miaowen Xu, Lili Huang and Youwei Wang*



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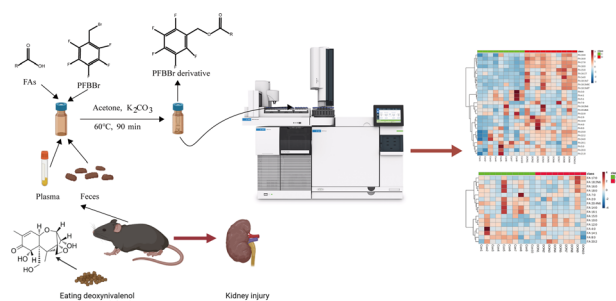
A novel fluorescent probe with a large Stokes shift for colorimetric and selective detection of cysteine in water, milk, cucumber, pear and tomato

Lin Luo, Ranran Guo, Lianjie Wang, Xixi Song,* Zhao Wang* and Junliang Wu*



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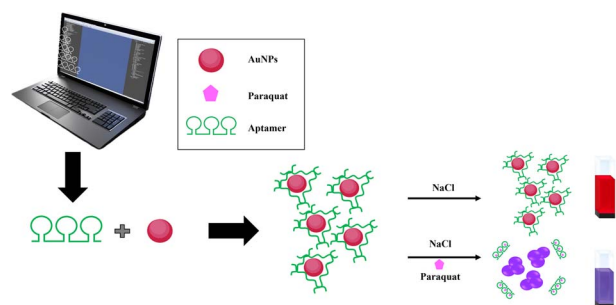
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A complementary method with PFBBBr-derivatization based on a GC-EI-MS platform for the simultaneous quantitation of short-, medium- and long-chain fatty acids in murine plasma and feces samples

Hong-Xu Zhou, Qing Jiang, Xin He, Xian Fu and Jun-Yan Liu*

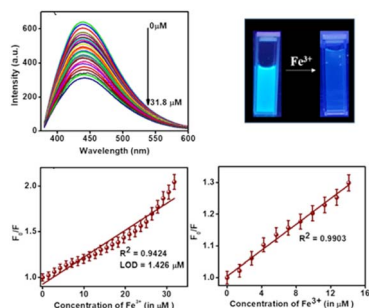
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A new colorimetric aptasensor for paraquat detection based on the designed aptamer with multiple paraquat binding sites in combination with gold nanoparticles

Pakawat Kongpreecha and Sineenat Siri*

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Fe³⁺-induced luminescence quenching in carbon dots – mechanism unveiled

Varsha Raveendran P.T., Anjali C. and Renuka Neeroli Kizhakayil*

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An immunochromatographic strip sensor for rapid and sensitive detection of candesartan, olmesartan medoxomil, and irbesartan in herbal beverages

Dingyu Li, Aihong Wu, Liqiang Liu, Hua Kuang, Chuanlai Xu and Xiaoling Wu*

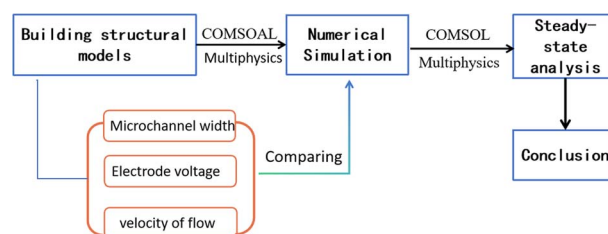


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A novel electrophoretic assisted hydrophobic microdevice for enhancing blood cell sorting: design and numerical simulation

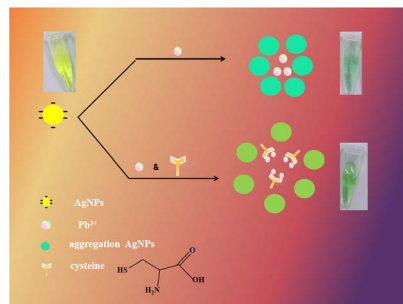
Xinkun Chen and Xueye Chen*



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Anti-aggregation colorimetric sensing of cysteine using silver nanoparticles in the presence of Pb²⁺

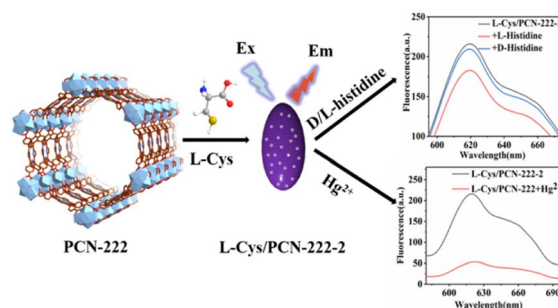
Lihui Mao,* Yi Zhang, Huan Zhang, Huili Liu and Yong-ping Gao*



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Dual-functional porphyrinic zirconium-based metal–organic framework for the fluorescent sensing of histidine enantiomers and Hg²⁺

Shili Qin, Fanshu Meng, Fenglong Jin, Xidi Xu, Ming Zhao, Hongtao Chu, Lidi Gao* and Shuren Liu*



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Construction of coumarin-appended calix[4]arene-based fluorescence sensor for the detection of carbofuran in cabbage

Heni Soni, Nidhi Verma, Divyesh Y. Chaudhari, Sahaj A. Gandhi, Alok Pandya and Pinkesh G. Sutariya*

