

Analytical Methods

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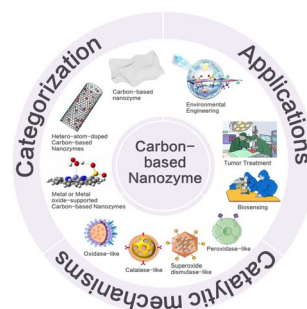
Cover
See Dimitri Pappas *et al.*,
pp. 6297–6303. Image
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McKenna McKay from *Anal.*
Methods, 2025, 17, 6297.

CRITICAL REVIEWS

6264

Carbon-based nanozymes: catalytic mechanisms, performance tuning, and environmental and biomedical applications

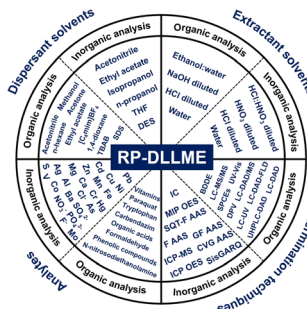
Hongying Ye, Yongquan Lai, Zhaodi Wu, Guizhen Li, Qingqing Hua and Wenyuan Zhu*



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Recent developments in reverse phase-dispersive liquid–liquid microextraction: a review

Enilin de Mendonça de Azevedo, Paloma Konzgen Maciel, Ana Claudia Beduhn Luckow, Maiara Helena de Melo Malinowski and Bruno Meira Soares*



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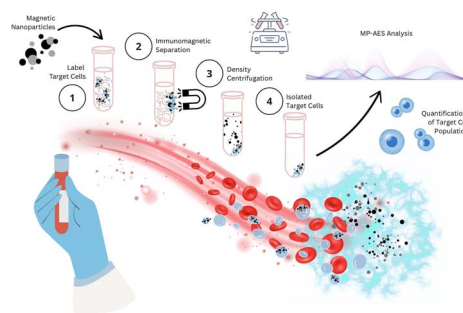
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Fundamental questions
Elemental answers

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Isolation and detection of target cells in blood via immunomagnetic separation and atomic emission spectroscopy

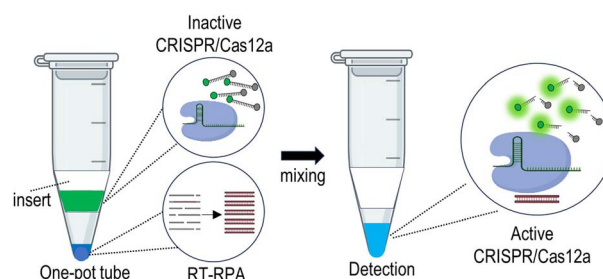
McKenna M. McKay, Kensington H. Fansler, Ke Liu and Dimitri Pappas*



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Rapid, multiplex, one-pot CRISPR/Dx system for detecting cancer fusion genes

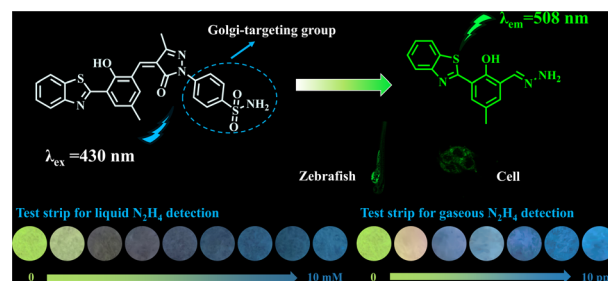
Jiaqi Li, Cia-Hin Lau, Jianchao Wang, Weidong Wu, Zhihao Huang, Xiaoqing Chen, Jiahui Li, Yumei Huang, Tao Wang, Yulin Li, Zihan Zhao, Meijing Xu, Gang Chen,* Sheng Tong* and Haibao Zhu*



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A Golgi-targeting fluorescent probe for the detection of hydrazine in biological and environmental systems

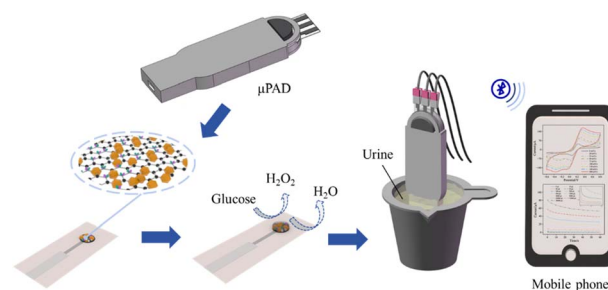
Hui-Juan Lai, Xu Wang, Yuan Wang,* Wei-Na Wu* and Zhi-Hong Xu*



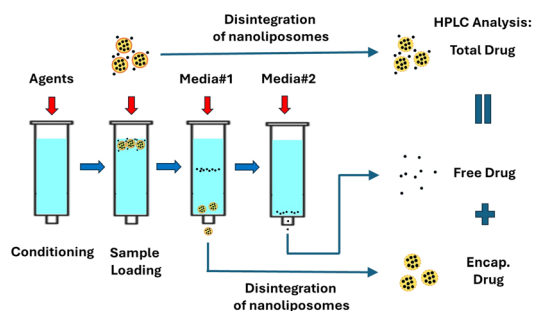
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A microfluidic paper-based analytical device based on a surface-modified screen-printed electrode Pt-Pd/RGO nanocomposite for glucose detection in urine

Chaozhan Chen, Ruhuan Ye, Zidong Chen, Jiayi Ye, Bin Ran, Bo Liu, Jialin Liang, Jiale Huang* and Teng Shen*



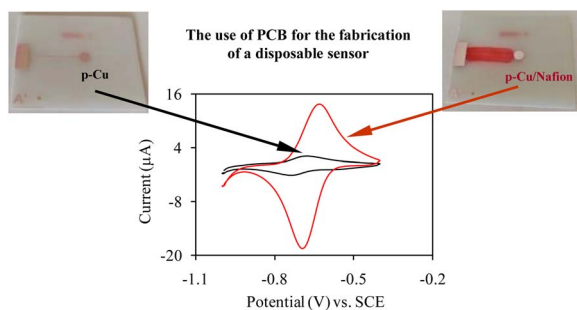
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Development of a size exclusion chromatography cartridge-based analytical method for determination of free drug in nano-liposomal oncology drug formulations

Wei Zhang,^{*} Mark Paciolla, Lijun Duan, Elise Bradley, Aastha Chadha, Bhavesh Barot and Kaylee Worrell

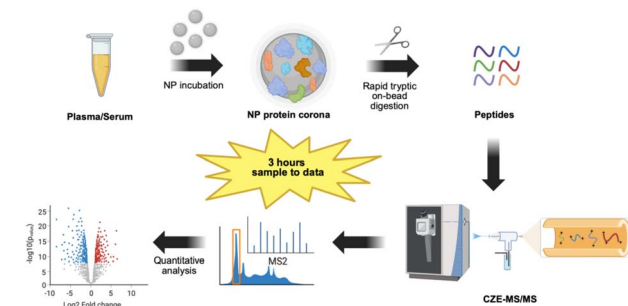
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Application of an FR4 printed circuit board for the fabrication of a simple and low cost patterned Cu disk for the determination of paraquat

Narjes Negahdari and Behzad Haghighi^{*}

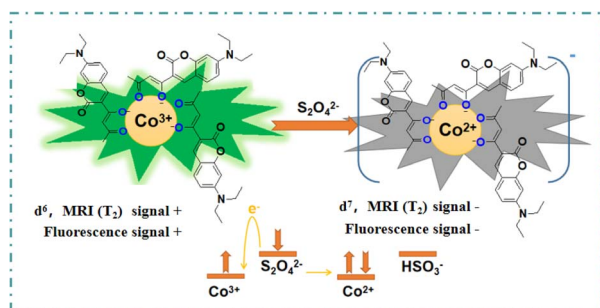
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High-throughput plasma/serum proteomics by coupling nanoparticle protein corona-based sample preparation and capillary zone electrophoresis-tandem mass spectrometry

Qianyi Wang, Seyed Amirhossein Sadeghi, Fei Fang, Dejin Zheng, Chenxiang Luo, Guangyao Gao, Qianjie Wang, Bin Gu^{*} and Liangliang Sun^{*}

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A cobalt(III) complex as a dual-mode probe for the detection of sodium dithionite via MRI and fluorescence

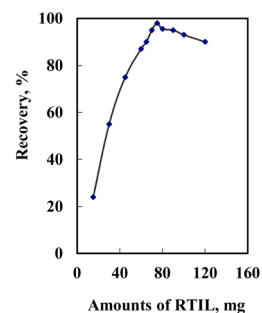
Jiaqi Zhou, Zexiao Huang, Haoyan Xing, Yue Wang,^{*} Cheng Zhang, Zhuye Shang, Qingtao Meng,^{*} Run Zhang and Zhiqiang Zhang^{*}



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Ultrasound-assisted ionic liquid microextraction and colorimetric analysis for trace-level gold detection in environmental and geological samples

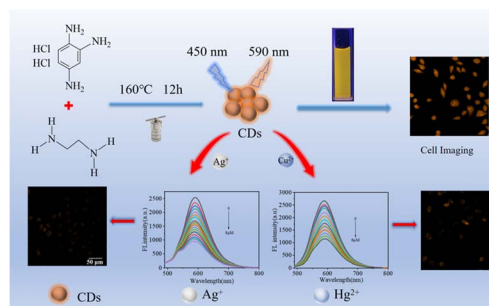
Fahad M. Alminderej, Alaa M. Younis, Alaa S. Amin* and Hesham H. El-Feky



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Dual-response fluorescent carbon dots for Ag⁺ and Hg²⁺ detection study in actual samples and biological systems

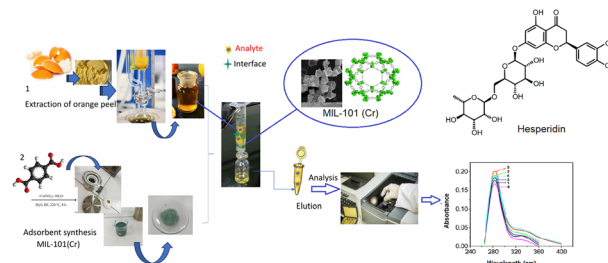
Xinyan Liu, Chao Liu, Qingyue Hu, Huihui Ge, Jie Tan, Jianhua Wang* and Wei Bian*



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A simple and economic solid-phase extraction method for purification of hesperidin from orange peel using a metal-organic framework-adsorbent (MIL-101 (Cr))

Akram Sadat Nabavi, Sayed Mehdi Ghoreishi* and Fateme Tajabadi



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A new electrochemical sensor for the detection of uric acid and xanthine based on a carbon paste electrode coated with a metal organic framework

Ali Safaei and Susan Sadeghi*

