



# RSC Applied Polymers

GOLD  
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The application of polymers,  
both natural and synthetic

Interdisciplinary and open access

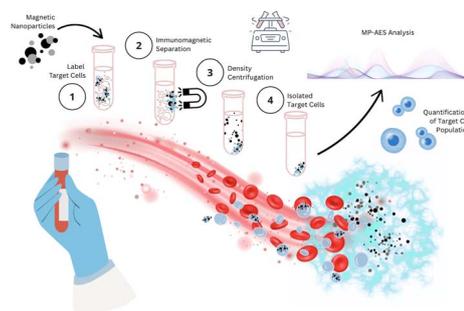
[rsc.li/RSCApplPolym](https://rsc.li/RSCApplPolym)

Fundamental questions  
Elemental answers

6297

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

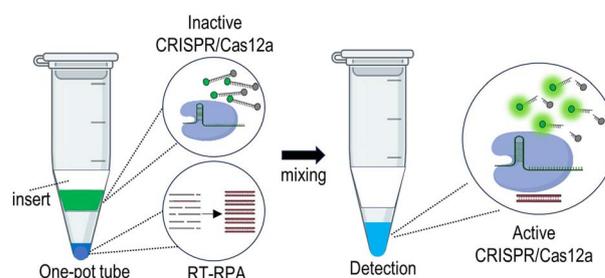
McKenna M. McKay, Kensington H. Fansler, Ke Liu and Dimitri Pappas\*



6304

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

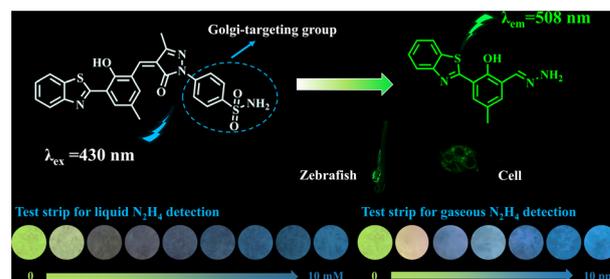
Jiaqi Li, Cia-Hin Lau, Jianchao Wang, Weidong Wu, Zhihao Huang, Xiaoqing Chen, Jiahui Li, Yumei Huang, Tao Wang, Yulin Li, Zihan Zhao, Meijing Xu, Gang Chen,\* Sheng Tong\* and Haibao Zhu\*



6317

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

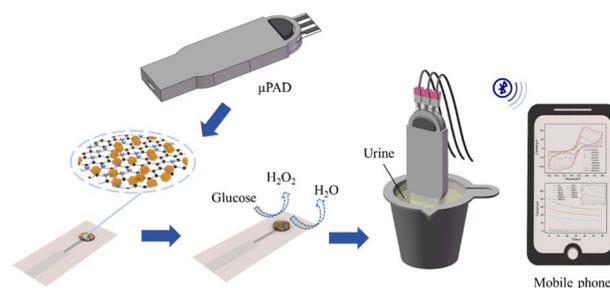
Hui-Juan Lai, Xu Wang, Yuan Wang,\* Wei-Na Wu\* and Zhi-Hong Xu\*



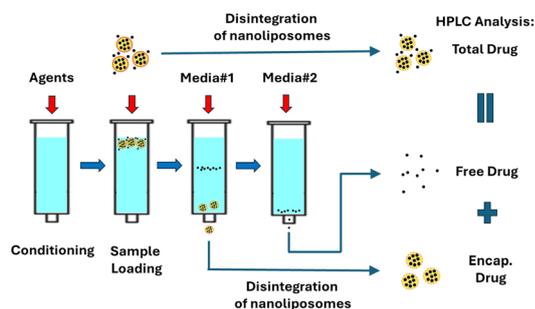
6326

### 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\*



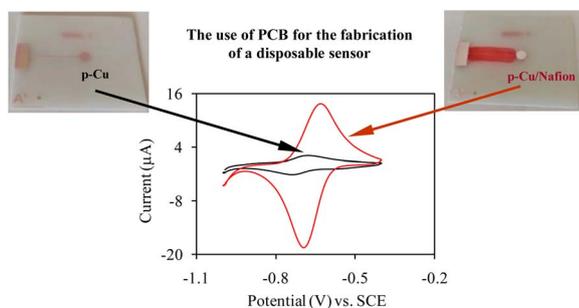
6336



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

Wei Zhang,<sup>\*</sup> Mark Paciolla, Lijun Duan, Elise Bradley, Aastha Chadha, Bhavesh Barot and Kaylee Worrell

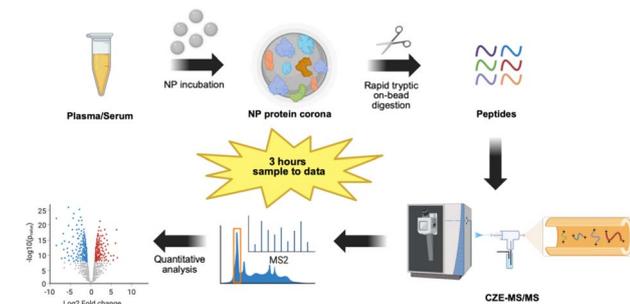
6348



### 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<sup>\*</sup>

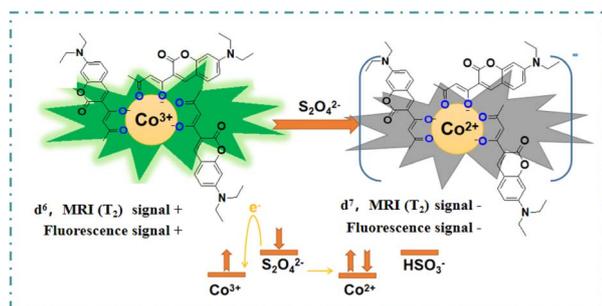
6356



### 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<sup>\*</sup> and Liangliang Sun<sup>\*</sup>

6366



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

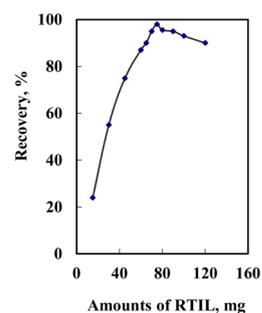
Jiaqi Zhou, Zexiao Huang, Haoyan Xing, Yue Wang,<sup>\*</sup> Cheng Zhang, Zhuye Shang, Qingtao Meng,<sup>\*</sup> Run Zhang and Zhiqiang Zhang<sup>\*</sup>



6374

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

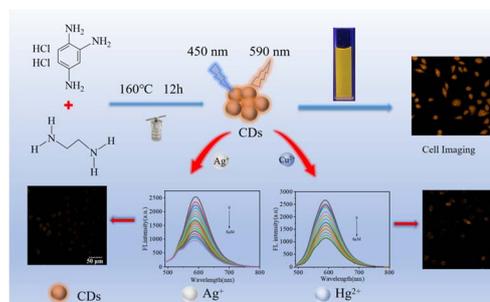
Fahad M. Alminderej, Alaa M. Younis, Alaa S. Amin\* and Hesham H. El-Feky



6387

### Dual-response fluorescent carbon dots for Ag<sup>+</sup> and Hg<sup>2+</sup> detection study in actual samples and biological systems

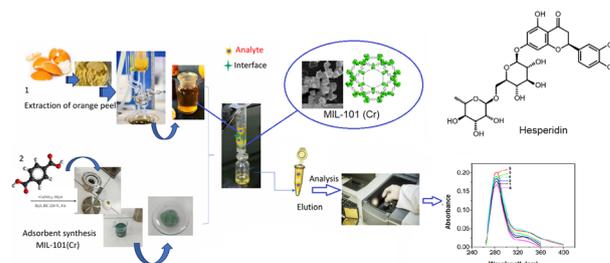
Xinyan Liu, Chao Liu, Qingyue Hu, Huihui Ge, Jie Tan, Jianhua Wang\* and Wei Bian\*



6397

### 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



6405

### 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\*

