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See Matthias Geissler, Lidija Malic *et al.*, pp. 9–33.

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### Inside cover

See Wendell Karlos Tomazelli Coltro *et al.*, pp. 60–68.

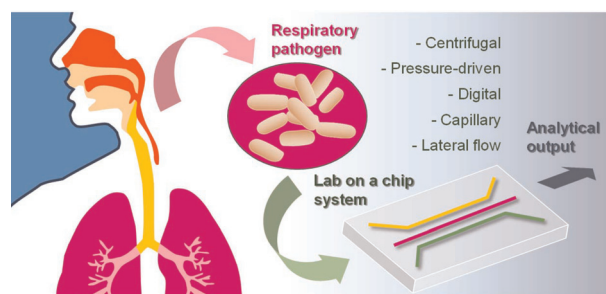
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### Microfluidic methods for the diagnosis of acute respiratory tract infections

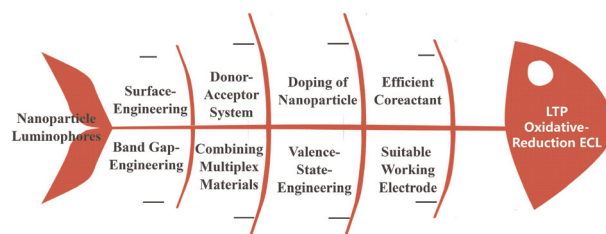
Kan-Zhi Liu, Ganghong Tian, Alex C.-T. Ko, Matthias Geissler,\* Lidija Malic, Byeong-Ui Moon, Liviu Clime and Teodor Veres



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### Recent advances and future prospects in oxidative-reduction low-triggering-potential electrochemiluminescence strategies based on nanoparticle luminophores

Li Fu, Tianyuan Song, Qi Li, Guizheng Zou,\* Fuwei Zhang, Zongchao Li, Haotian Guan and Yingshu Guo\*



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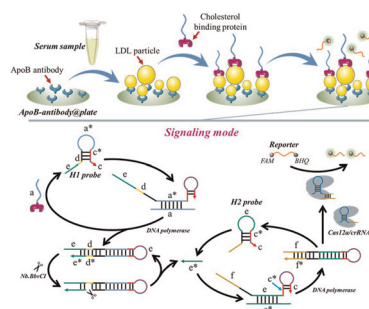


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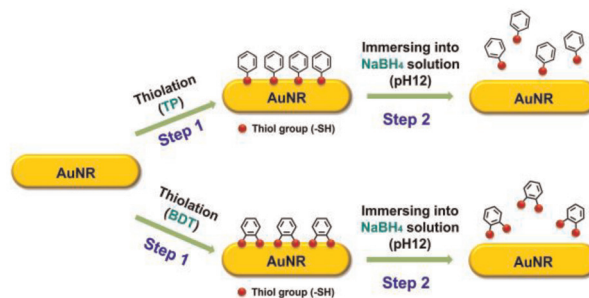
Xiaoya Liu, Hai Peng, Lisha Gong, Hong Zhang, Chenglong Zhao, Weiju Lai, Gang An\* and Xianxian Zhao\*



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### Controlling chemical interface damping by removing aromatic monothiol and dithiol groups from gold nanorods using sodium borohydride solution

Ji Min Kim and Ji Won Ha\*

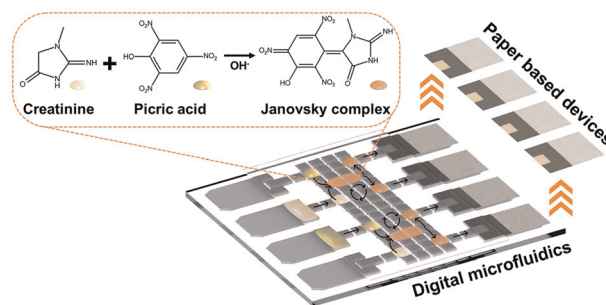


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### Integration of paper-based analytical devices with digital microfluidics for colorimetric detection of creatinine

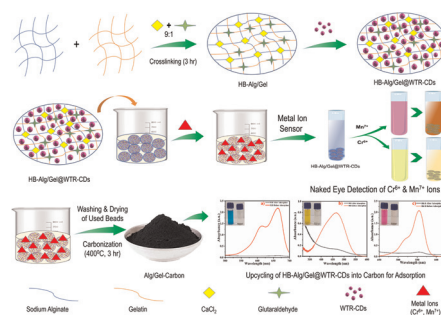
Larissa G. Velasco, Danielly S. Rocha, Richard P. S. de Campos and Wendell K. T. Coltro\*



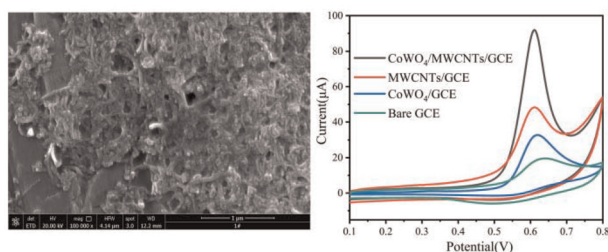
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### Nanocarbon eco-hydrogel kit: on-site visual metal ion sensing and dye cleanup, advancing the circular economy in environmental remediation

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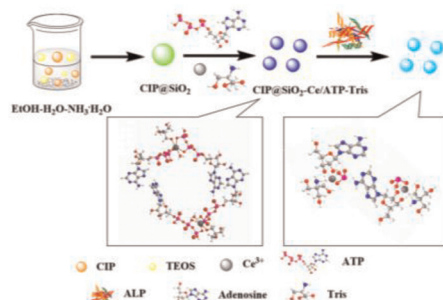
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### A sensitive electrochemical sensor based on CoWO<sub>4</sub>/multi-walled carbon nanotubes for the selective determination of chlorpromazine hydrochloride

Si Zeng, Peiyao Zhu, Deyu Liu, Yongmei Hu, Qitong Huang\* and Haiping Huang\*

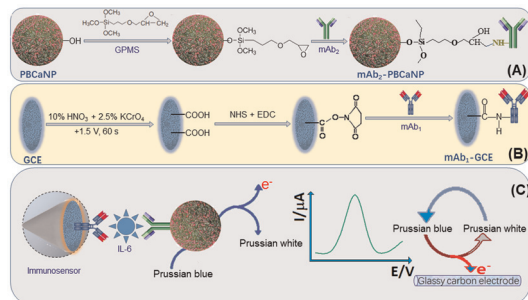
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### A novel ratiometric fluorescent probe based on an internal reference of lanthanide/nucleotide for alkaline phosphatase detection

Haoran Yu, Ziqing Qiang, Yelin Sun, Mengyao Sun, Lei Zhang, Bohao Yu,\* Wen Lei and Weibing Zhang\*

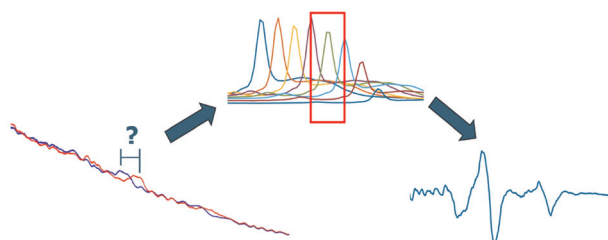
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### Prussian blue-doped CaCO<sub>3</sub> nanoparticle-labeled secondary antibodies for electrochemical immunoassay of interleukin-6 with migraine patients

Zhong Chen, Wenhui He, Renhe Lin, Dongzhi Wu, Xiaoling Jiang\* and Yunfan Cheng\*

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H. Sheridan, A. P. Dudgeon, J. C. C. Day, C. Kendall, C. Hall and N. Stone\*





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### Ti-based MOF nanosheets as a mass spectrometry imaging matrix for low molecular weight compounds to reveal the spatiotemporal content changes of hepatotoxic components during the processing of *Polygonum multiflorum*

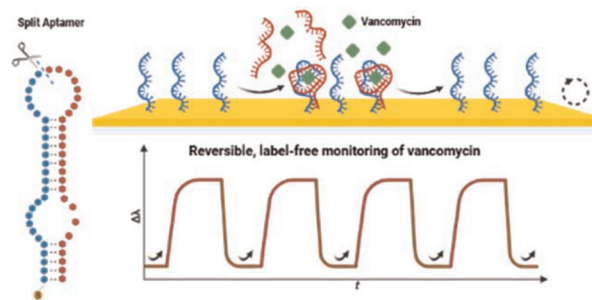
Feng-yan Kuang, De-jun Hu, Lu Wang, Fei Chen\* and Guang-ping Lv\*



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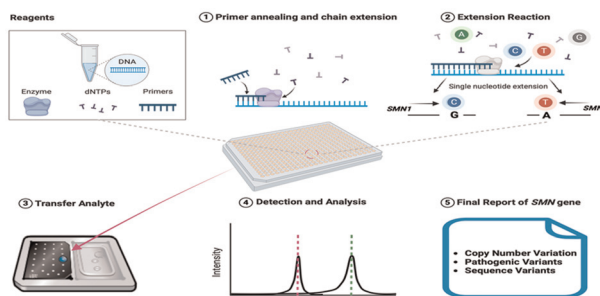
Cátia Santa, Soohyun Park, Artur Gejt, Heather A. Clark, Bastian Hengerer and Khulan Sergelen\*



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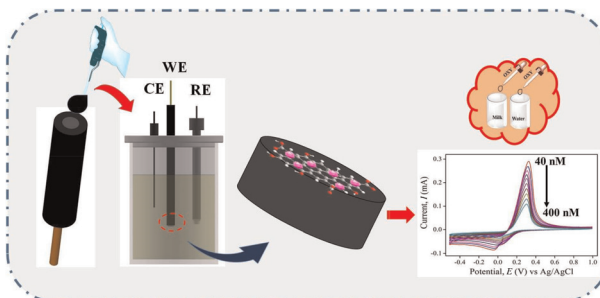
Xiaodong Xing, Xing Ji, Xinzhu Liu, Xiaohui Jin, Zhenglei He, Ajing Xu, Wengao Jiang, Wenbo Ji, Yan Liu, Jian Zhang and Xiaohui Huang\*



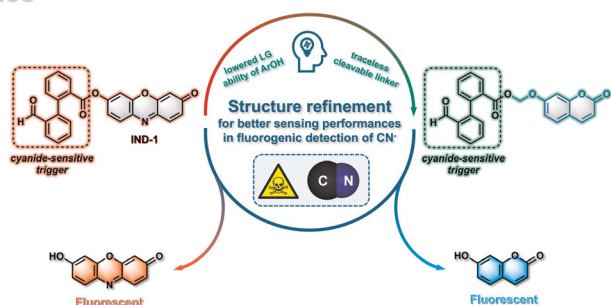
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### Tuning the electro-catalytic activity of the Zn–Cu MOF/rGO nanocomposite as a novel enzyme-free electrochemical sensor for the detection of the oxytocin hormone

Md Zainul Abedeen, Manish Sharma, Himmat Singh Kushwaha and Ragini Gupta\*



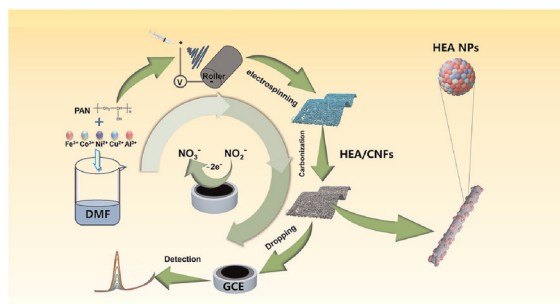
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## Fluorogenic detection of cyanide ions in pure aqueous media through an intramolecular crossed-benzoin reaction: limitations unveiled and possible solutions

Vincent Gaumerd, Yoan Capello, Quentin Bonnin, Pierre-Yves Renard and Anthony Romieu\*

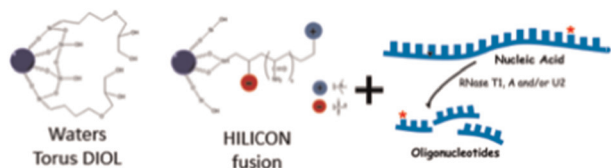
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## Nanofibers decorated with high-entropy alloy particles for the detection of nitrites

Wang Yang, Wanchen Xie, Chongtao Zhang, Fang Duan, Shuanglong Lu and Mingliang Du\*

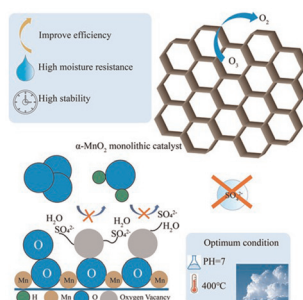
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Scott Abernathy, Asif Rayhan and Patrick A. Limbach\*

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## $\alpha\text{-MnO}_2$ catalysts with efficient ozone-catalyzed decomposition under high humidity conditions

Jiafan Ji, Qianqian Yan, Yi Chen, Gaosheng Zhao, Bin Jia,\* Li Xu and Ping Cheng\*

