

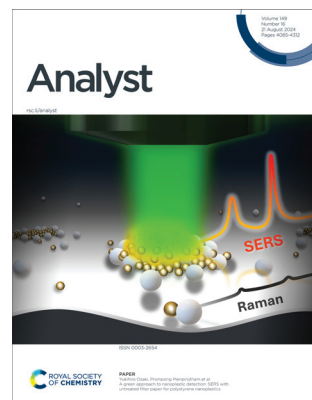
# Analyst

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### Cover

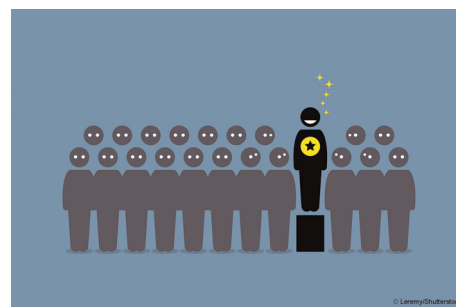
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## EDITORIAL

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### Outstanding Reviewers for *Analyst* in 2023

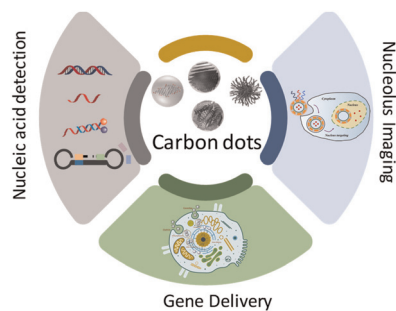


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### Comprehensive review on fluorescent carbon dots and their applications in nucleic acid detection, nucleolus targeted imaging and gene delivery

Arumugam Selva Sharma and Nae Yoon Lee\*



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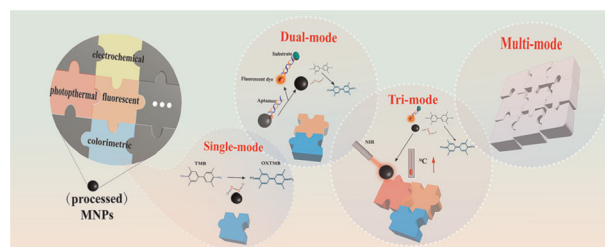


## CRITICAL REVIEWS

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## Multimodal biosensing systems based on metal nanoparticles

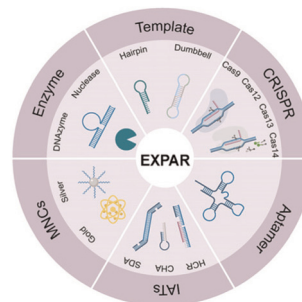
Liang Yan, Peijia Zheng, Zhicheng Wang, Wenjie Wang, Xiaoman Chen and Qi Liu\*



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## EXPAR for biosensing: recent developments and applications

Xinyi Ou, Kunxiang Li, Miao Liu, Jiajun Song, Zhihua Zuo\* and Yongcan Guo\*

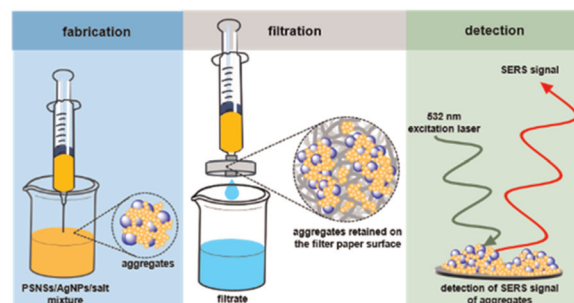


## PAPERS

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## A green approach to nanoplastic detection: SERS with untreated filter paper for polystyrene nanoplastics

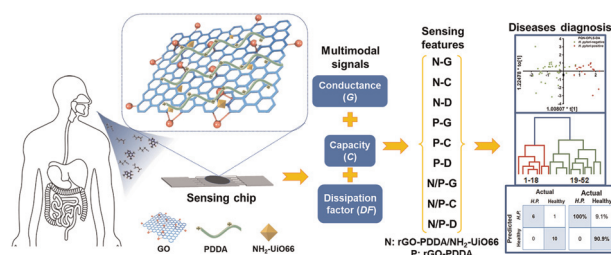
Boonphop Chaisrihwun, Mary Jane Dacillo Balani, Sanong Ekgasit, Yunfei Xie, Yukihiro Ozaki\* and Prompong Pienpinijtham\*



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High-precision *Helicobacter pylori* infection diagnosis using a dual-element multimodal gas sensor array

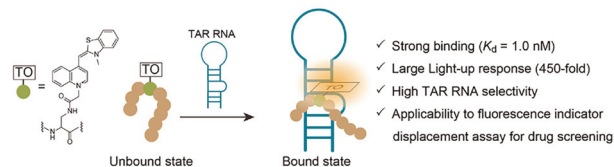
Jiaying Wu, Shiyuan Xu, Xuemei Liu, Jingwen Zhao, Zhengfu He, Aiwu Pan\* and Jianmin Wu\*



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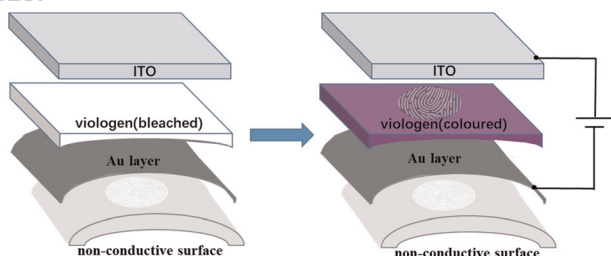
Forced intercalation-induced light-up peptide (FILuP)



### Forced intercalation-induced light-up peptides as fluorogenic indicators for the HIV-1 TAR RNA-ligand assay

En Ting Tabitha Lee, Yusuke Sato,\* Akunna F. Ujuagu and Seiichi Nishizawa\*

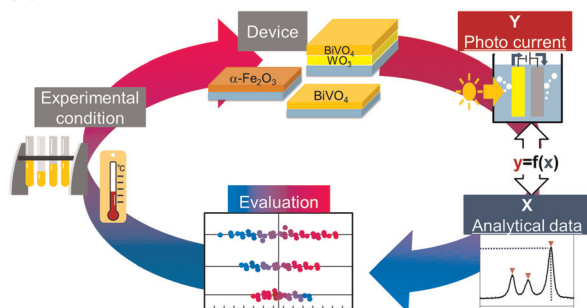
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### Electrochromic visualization of latent fingerprints deposited on nonconductive surfaces

Yawen Kong, Xiuge Shi, Meng Wang, Weiyi Chen, Lu Li,\* Lan Zhang and Debao Xiao\*

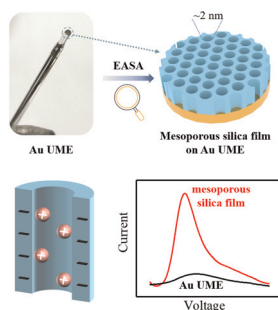
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### A robust methodology for PEC performance analysis of photoanodes using machine learning and analytical data

Moeko Tajima, Yuya Nagai, Siyan Chen, Zhenhua Pan and Kenji Katayama\*

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### Ultrasensitive detection of dopamine using Au microelectrodes integrated with mesoporous silica thin films

Juan Huang, Huaxu Zhou, Yanqi Zou, Huiqing Liu\* and Qianjin Chen\*

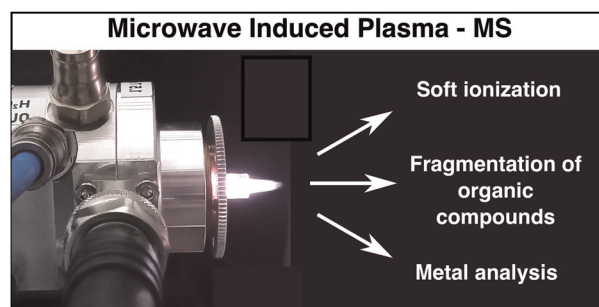


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### Study of a microwave induced plasma as a universal ion source for inorganic and organic mass spectrometry

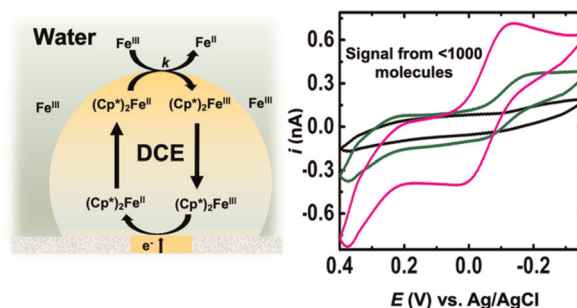
Marc-Aurèle Boillat and Peter C. Hauser\*



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### Amplifying the electrochemical footprint of <1000 molecules in a dissolving microdroplet

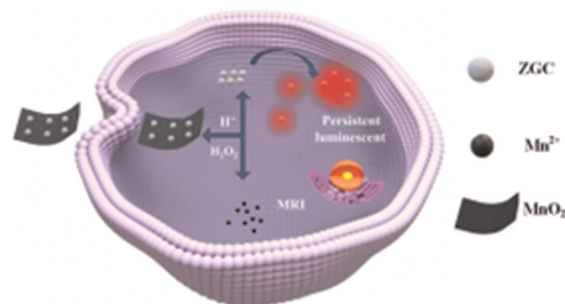
James H. Nguyen, Ashutosh Rana and Jeffrey E. Dick\*



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### Lighting up endogenous $\text{H}_2\text{O}_2$ in the tumor microenvironment using a dual-mode nanoprobe for long afterglow and MR bioimaging

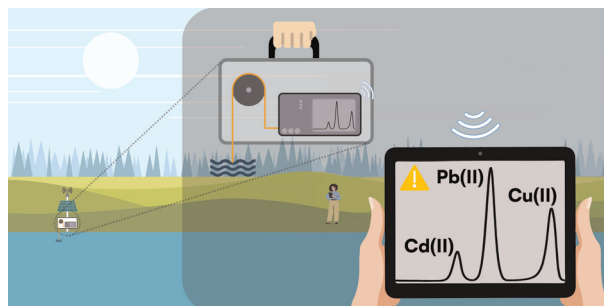
Yiming Wang, Jintao He, Rong Feng, Jingwen Chen, Gege Xie, Shengrong Yu,\* Yong-Xiang Wu\* and Keqi Tang\*



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### Development of a flow system for decentralized electrochemical analysis of heavy metals using screen-printed electrodes: the importance of sensor stability

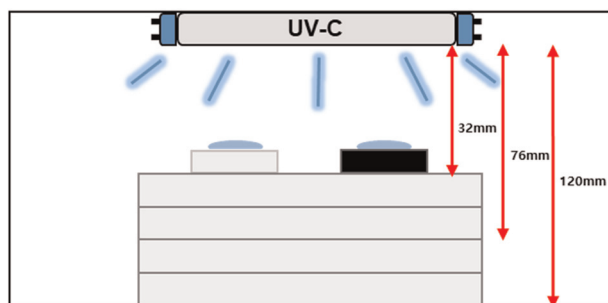
Serena Laschi, Patrick Severin Sfragano, Francesco Tadini-Buoninsegni, Nathalie Guigues and Ilaria Palchetti\*





## PAPERS

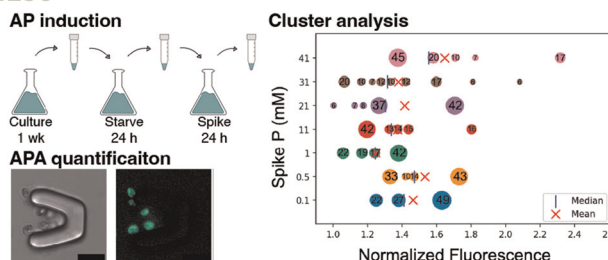
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### Sterilization efficacy of a homemade UV lamp system on ceramic and porcelain tiles

Dokyung Kwon, Yongju Jo, Youngku Sohn and Jeongkwon Kim\*

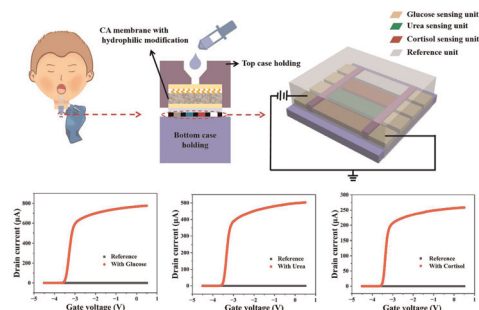
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### A microfluidic approach to study variations in *Chlamydomonas reinhardtii* alkaline phosphatase activity in response to phosphate availability

Alireza Rahnama, Manibarathi Vaithyanathan, Luis Briceno-Mena, Travis M. Dugas, Kelly L. Yates, Jose A. Romagnoli and Adam T. Melvin\*

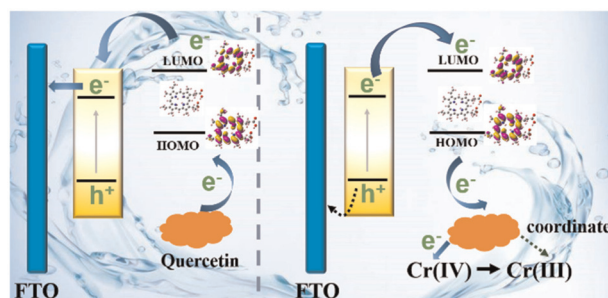
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Zhiqi Gu,\* Hui Chang, Guo Yang, Boxuan Xu, Bin Miao and Jiadong Li\*

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### Photoelectrochemical signal polarity transition mediated by quercetin for the detection of neuron-specific enolase

Rui Xu, Chenyu Jiang\* and Qin Wei\*

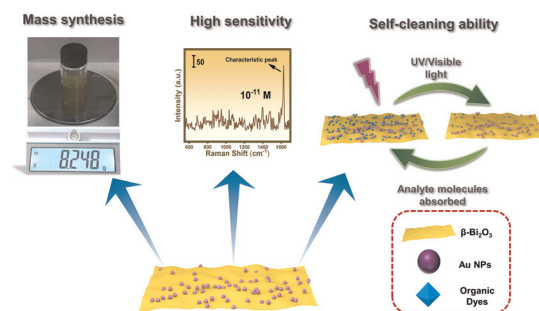


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Colby E. Ott

