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IN THIS ISSUE

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Cover

See Aidana Beisenova *et al.*, pp. 1186–1198.
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Inside cover

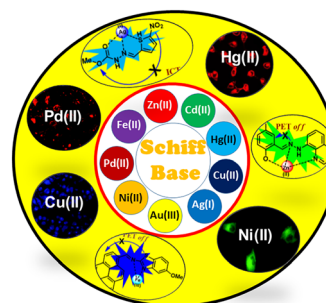
See Sankarasekaran Shanmugaraju *et al.*, pp. 1158–1175.
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CRITICAL REVIEWS

988

An overview of Schiff base-based fluorescent turn-on probes: a potential candidate for tracking live cell imaging of biologically active metal ions

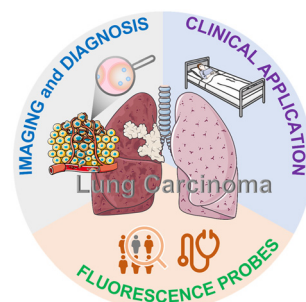
A. Afrin, Anjitha Jayaraj, M. S. Gayathri and Chinna Ayya Swamy P.*



1077

Fluorescence probes for lung carcinoma diagnosis and clinical application

Xiaoyu Zhang, Feifei Yu, Zhenkai Wang, Tongmeng Jiang, Xinyu Song* and Fabiao Yu*



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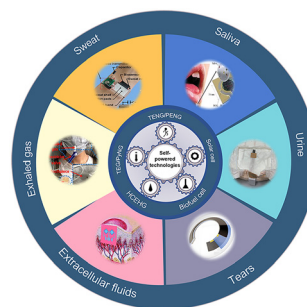


CRITICAL REVIEWS

1097

Self-powered sensors for biomarker detection

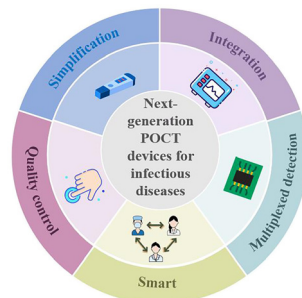
Jiaxuan Li, Lingling Xu, Yang Zou and Zhou Li*



1123

Point-of-care testing of infectious diseases: recent advances

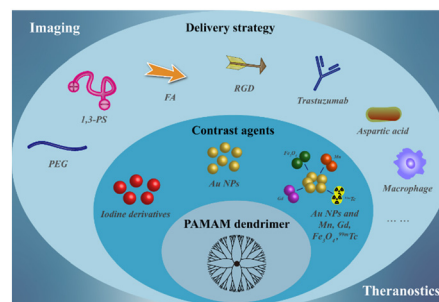
Meiyun Shang, Jiuchuan Guo and Jinhong Guo*



1145

Recent advances in PAMAM dendrimer-based CT contrast agents for molecular imaging and theranostics of cancer

Tianyu Huang, Gaoming Li, Yunqi Guo, Guixiang Zhang,* Dzmitry Shchabin, Xiangyang Shi* and Mingwu Shen*

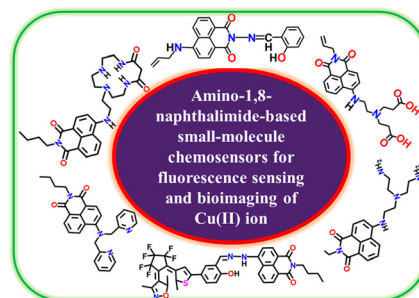


TUTORIAL REVIEW

1158

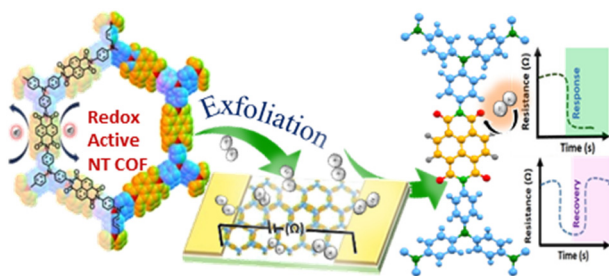
Fluorescence sensing and bioimaging of Cu(II) ions using amino-1,8-naphthalimide-based small-molecule chemosensors

Binduja Mohan, Noushija Mannanthara Kunhumon and Sankarasekaran Shanmugaraju*



COMMUNICATIONS

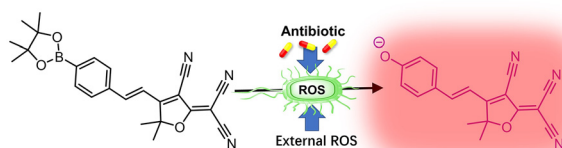
1176



An exfoliated redox active imide covalent organic framework for metal free hydrogen gas sensing

Nany Thokala, Kiran Vankayala, Asmita Dileep Gaonkar, Ganga Periyasamy, Kashifa Fazl-Ur-Rahman, Krishnaveni Valle, Marilyn Esclance DMello, Keloth Basavaiah and Suresh Babu Kalidindi*

1181

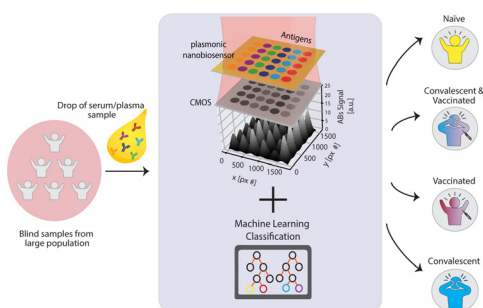


Repurposing a long-wavelength fluorescent boronate probe for the detection of reactive oxygen species (ROS) in bacteria

Kai-Cheng Yan, Naing Thet, Rachel A. Heylen, Adam C. Sedgwick,* Tony D. James,* A. Toby A. Jenkins* and Xiao-Peng He*

PAPERS

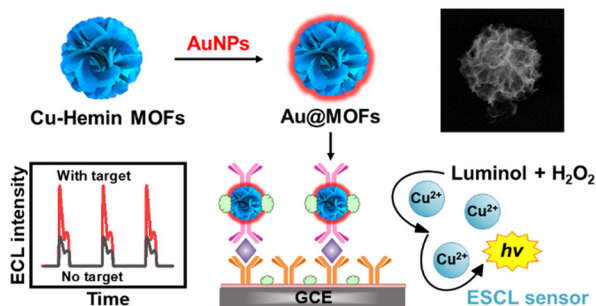
1186



Machine-learning-aided multiplexed nanoplasmonic biosensor for COVID-19 population immunity profiling

Aidana Beisenova, Wihan Adi, S. Janna Bashar, Monniesh Velmurugan, Kenzie B. Germanson, Miriam A. Shelef and Filiz Yesilkoy*

1199



Functionalized metal-organic frameworks based on multi-catalyst ordered assembly for electrochemical stripping chemiluminescent immunoassay

Xu Liang, Yuecong Hu, Xinhe Zheng, Yi Shao, Yutong Hua, Junjie Liu, Zhiwei Zhu and Yuanhua Shao*

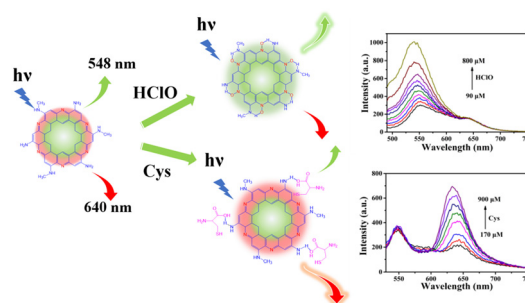


PAPERS

1207

A fluorescence “turn-on” probe for the respective ratiometric detection of hypochlorite and cysteine

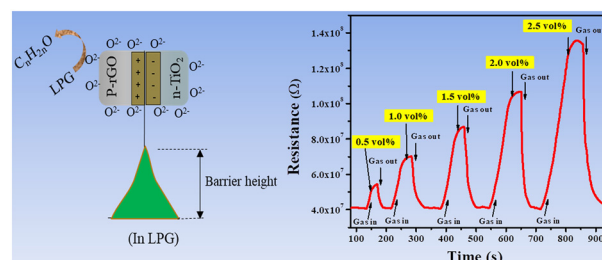
Zhizhen Wu, Muzi Cai, Wenjuan Lv, Cancan Lu, Bingyan Wu, Cuiling Ren,* Yalei Dong,* Hongli Chen and Xingguo Chen



1215

A highly sensitive room temperature liquefied petroleum gas (LPG) sensor with fast response based on a titanium dioxide (TiO₂)-reduced graphene oxide (r-GO) composite

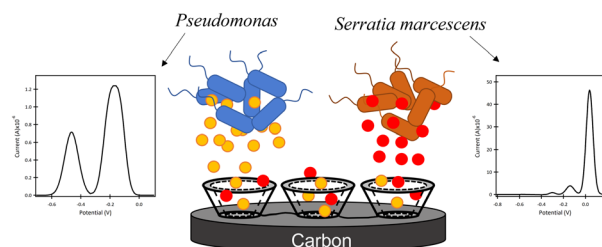
Navin Chaurasiya, Ajeet Singh, Kuldeep Kumar, Bal Chandra Yadav, Pramod Kumar Yadawa,* Sandip Kumar Singh and Kajal Kumar Dey*



1228

Rapid fingerprinting of bacterial species using nanocavities created on screen-printed electrodes modified by β-cyclodextrin

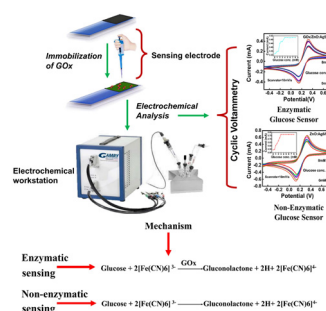
Niloofar Haghighian and Ritu Katakya*



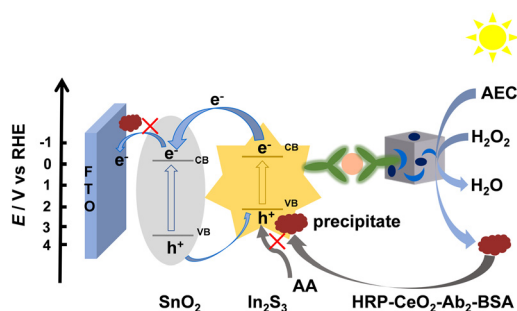
1236

Effect of doping mediated oxygen vacancies on the charge transfer ability of zinc oxide nanosheets for electrochemical glucose sensing

Saptaka Baruah, Bidyarani Maibam, Jyoti Jaiswal, Ankit Kumar and Sanjeev Kumar*



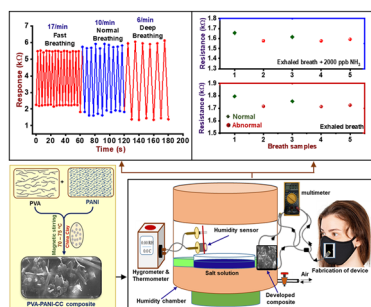
1249



Photoelectrochemical immunoassay of alpha-fetoprotein based on a $\text{SnO}_2/\text{In}_2\text{S}_3$ heterojunction and an enzyme-catalyzed precipitation strategy

Lu Li, Yaqing Weng, Chenglong Sun, Yueyi Peng* and Qingji Xie*

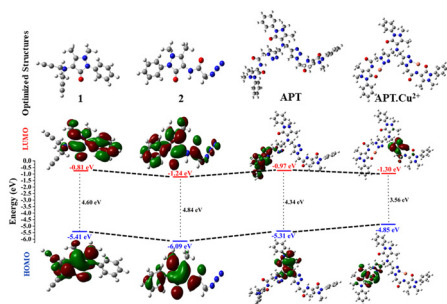
1256



Chemiresistive sensor for breath frequency and ammonia concentration in exhaled gas over a PVA/PANI/CC composite film

Sandeep Kumar, Chandra Shekhar Kushwaha, Pratibha Singh, Kritika Kanojia and Saroj Kr Shukla*

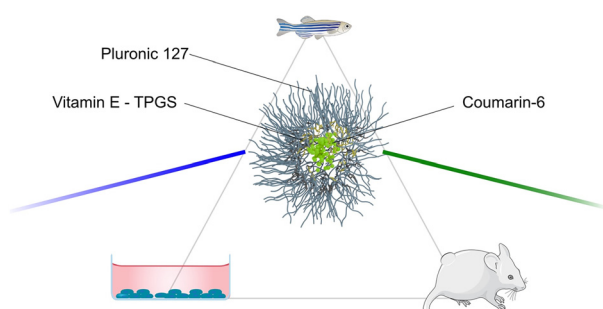
1267



A selective chemosensor *via* click chemistry for Cu^{2+} and Hg^{2+} ions in organic media

Sachin Kumar, Bajrang Lal, Ram Kumar Tittal*, Gurleen Singh, Jandeep Singh, Ghule Vikas D., Renu Sharma and Jagjivan K. Sabane

1277



Photophysical and biological assessment of coumarin-6 loaded polymeric nanoparticles as a cancer imaging agent

Yiota Gregoriou*, Gregoria Gregoriou, Andreas Manoli, Paris Papageorgis, Benedict Mc Larney, Despoina Vangeli, Sarah McColman, Vural Yilmaz, Hsiao-ting Hsu, Magdalena Skubal, Anuja Ogirala, Evangelia Athanasiou, David T. Cramb, Nikolas Dietis, Katerina Strati, Grigorios Itskos, Andreas I. Constantinou and Chrysafis Andreou*

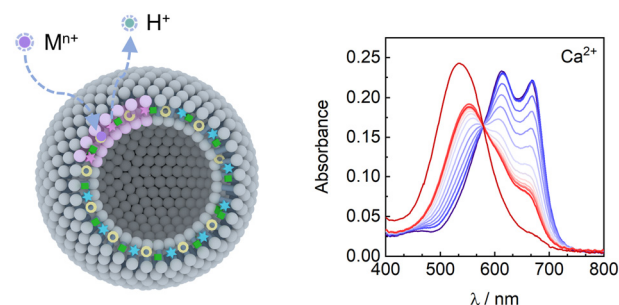


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1286

Polymersome-based ion-selective nano-optodes containing ionophores

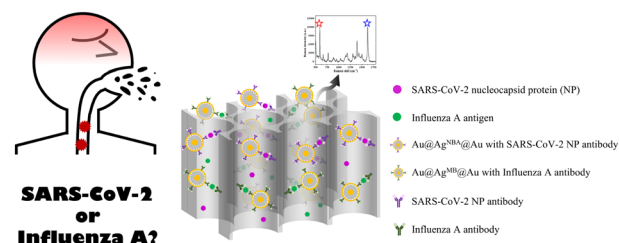
Yunxin Cui, Jingying Zhai, Yifu Wang and Xiaojiang Xie*



1292

Rapid and simultaneous detection of SARS-CoV-2 and influenza A using vertical flow assay based on AAO and SERS nanotags

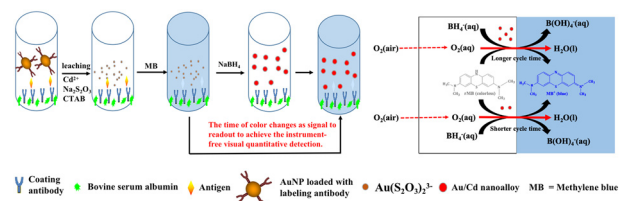
Yu Lu, Ruihua Fei, Jiahe Zhang, Geng Zhu, Xiufang Mo, Yu Wan, Yan Huang, Qingjiang Sun, Dianhuai Meng* and Xiangwei Zhao*



1302

A new detection mode for gold nanoparticle-linked immunosorbent assay (GNLISA) based on a clock reaction: instrument- and enzyme-free visual quantitative detection of prostate-specific antigen (PSA)

Tianxiang Wu* and Xiao-Yuan Li



1311

A water soluble fluorescent probe for selective and sensitive detection of picric acid – a nitroexplosive

Porchezhiyan Vadivel, Kalaivani Dayanidhi and Noorjahan Sheik Eusuff*

