

Sensors & Diagnostics

rsc.li/sensors

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 2635-0998 CODEN SDEIAR 3(3) 329-480 (2024)



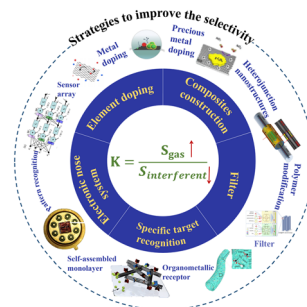
Cover
Image Credit: © Westend61/
Getty Images.

TUTORIAL REVIEWS

336

Approaches for selectivity improvement of conductometric gas sensors: an overview

Jing Li, Hongchao Zhao, Yanjie Wang and Yong Zhou*



354

Diagnosis of infectious diseases: complexity to convenience

Sahil Syed, Alisha Rahaman, Abhijit Mondal, Shradha Shaligram* and Shrikant P. Pawar*



EES Catalysis

GOLD
OPEN
ACCESS

Exceptional research on energy and environmental catalysis

Open to everyone. Impactful for all

rsc.li/EESCatalysis

Fundamental questions
Elemental answers

Registered charity number: 207890

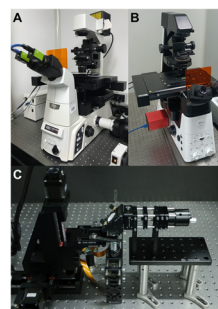


TUTORIAL REVIEWS

381

Dual-view transport of intensity phase imaging devices for quantitative phase microscopy applications

Shouyu Wang,* Huachuan Huang, Aihui Sun, Lin Zhu, Wei Guo, Keding Yan and Liang Xue

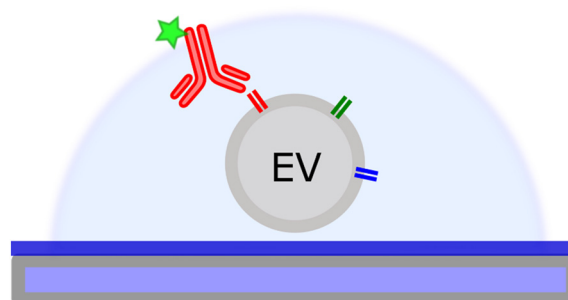


COMMUNICATION

395

Extracellular vesicle analysis in supramolecular 3D hydrogels: a proof-of-concept

Greta Bergamaschi,* Roberto Frigerio, Angelo Musicò, Giulia Lodigiani, Paola Gagni, Riccardo Vago, Marina Cretich* and Alessandro Gori*

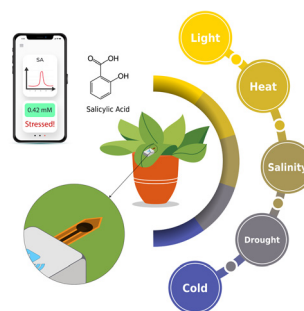


PAPERS

400

Sustainable agriculture with LEAFS: a low-cost electrochemical analyzer of foliage stress

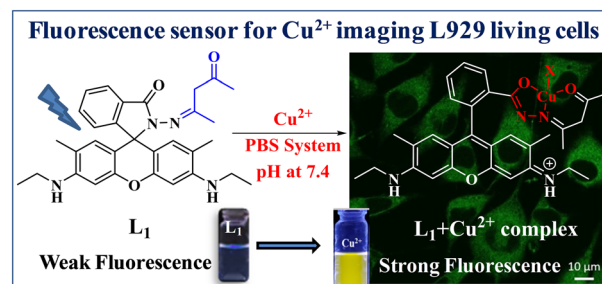
Sina Khazaei Nejad, Haozheng Ma, Abdulrahman Al-Shami, Ali Soleimani, Mona A Mohamed, Preston Dankwah, Hannah J. Lee and Maral P. S. Mousavi*



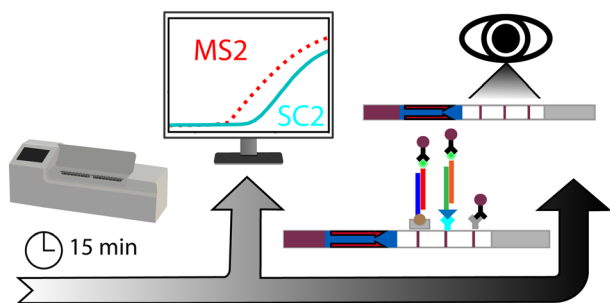
412

Synthesis and characterization of a rhodamine derivative as a selective switch-on fluorescent sensor for Cu²⁺ ions in aqueous PBS buffer and living cells

Maheshkumar Prajapati, Nidhi Pandey, Sarita Kalla, Sateesh Bandaru* and Areti Sivaiah*



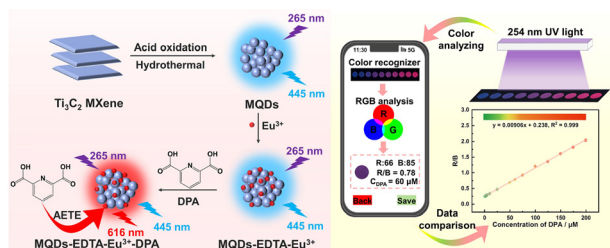
421



SARS-CoV-2 recombinase polymerase amplification assay with lateral flow readout and duplexed full process internal control

Coleman D. Martin, Andrew T. Bender, Benjamin P. Sullivan, Lorraine Lillis, David S. Boyle and Jonathan D. Posner*

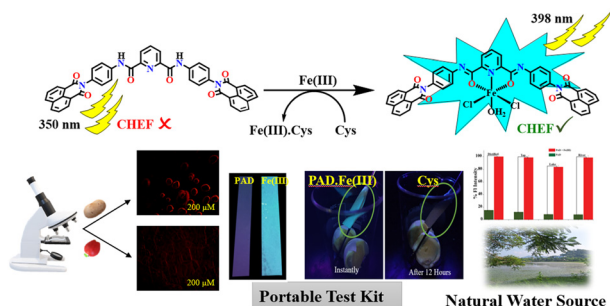
431



MXene quantum dots for ratiometric fluorescence detection of a *Bacillus anthracis* biomarker

Chunxiao Lin, Chubei Qiu, Yanan Wang, Yaowen Liu, Mingcong Rong* and Li Niu

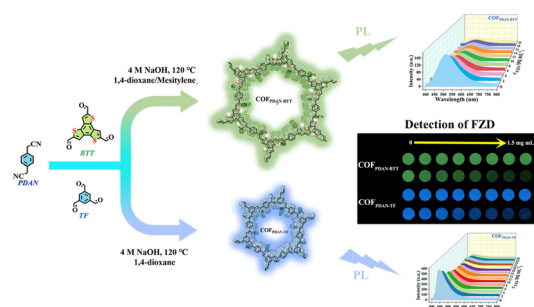
440



Self-assembled emissive probe for efficient sensing of Fe(III) and cysteine in a physiological medium: application in real water and food samples

Sulekha Kumari Pandit, Sanjana Das and Gopal Das*

448



A fluorescent sp²c-covalent organic polymer with an aggregation-induced emission unit to suppress aggregation-induced quenching for sensing furazolidone

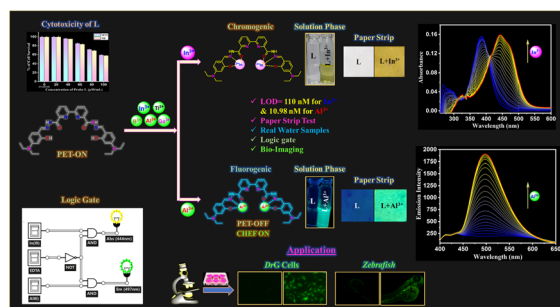
Xinyi Wang, Lijuan Kuang, Meiling Ye, Liangmei Zou, Li Wang* and Yonghai Song*



455

A dual responsive novel bipyridyl carbohydrazide Schiff base as a colorimetric-fluorescent probe for In^{3+} and Al^{3+} ions and its potential applications

Mujthaba Aatif A., Selva Kumar R., Leyana K. Shaji, Pravin Kumar Selvam, R. Bhaskar, S. Abdul Majeed, A. S. Sahul Hameed and S. K. Ashok Kumar*



468

A FokI-driven signal amplification platform for the simultaneous detection of multiple viral RNA pathogens

Juan R. Tejedor,* Annalisa Roberti, Cristina Mangas, Marta E. Álvarez-Argüelles, Susana Rojo-Alba, José A. Boga, Agustín F. Fernández, Santiago Melón, Mercedes Rodríguez and Mario F. Fraga*

