

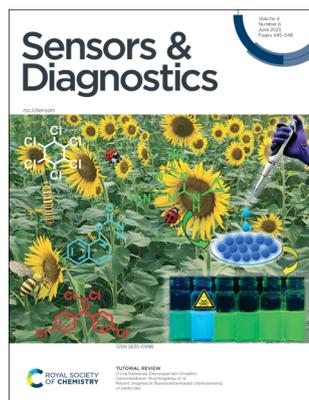
Sensors & Diagnostics

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 4(6) 445-548 (2025)



Cover
See Giriraj Kalaiarasi, Deivasigamani Umadevi, Sankarasekaran Shanmugaraju *et al.*, pp. 460–488.
Image reproduced by permission of Shanmugaraju Sankarasekaran from *Sens. Diagn.*, 2025, 4, 460.



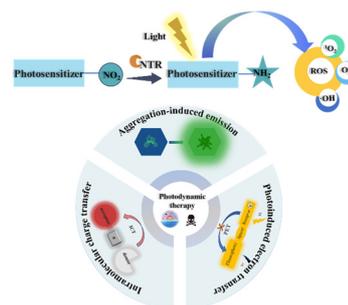
Inside cover
See Eithne Dempsey *et al.*, pp. 489–510.
Image reproduced by permission of Eithne Dempsey from *Sens. Diagn.*, 2025, 4, 489.

CRITICAL REVIEW

451

Recent advances in nitroreductase-activatable small molecule-based photosensitizers for precise cancer therapy

Fahui Hu, Linjun Zhang, Weiqing Qiu, Jing Wang, Yonsheng Liu,* Wanhe Wang* and Jin-Biao Liu*

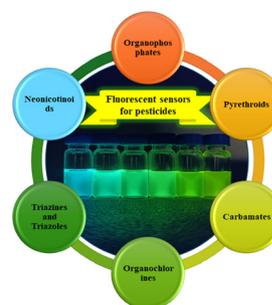


TUTORIAL REVIEW

460

Recent progress in fluorescence-based chemosensing of pesticides

Giriraj Kalaiarasi,* Ananthu Shanmughan, Yohaeswari Jegadeesan, Mannanthara Kunhumon Noushija, Alenthwar Vamshi Krishna, Harsha Gangadharan, Deivasigamani Umadevi* and Sankarasekaran Shanmugaraju*





EES Batteries

Exceptional research on
batteries and energy storage

Part of the EES family

**Join
in** | Publish with us
rsc.li/EESBatteries

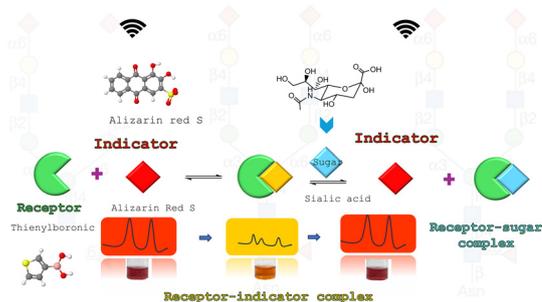
Registered charity number: 207890



489

Non-enzymatic electrochemical assay of *N*-acetyl-D-neuraminic acid through competitive chemoreceptor binding with (thiophen-3-yl)boronic acid

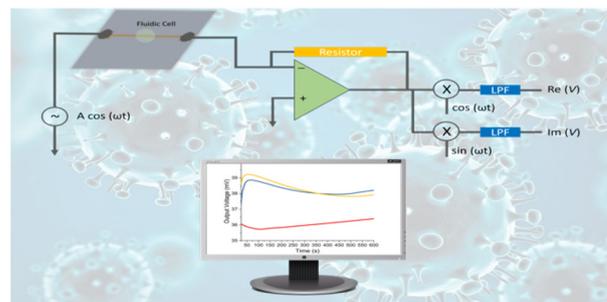
Athira Tomy, Saurav K. Guin, Conor Cassidy and Eithne Dempsey*



511

A label-free nanowell-based impedance sensor for ten-minute SARS-CoV-2 detection

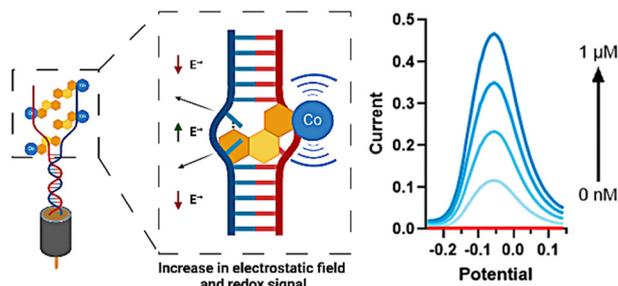
Zhuolun Meng, Liam White, Pengfei Xie, Hassan Raji, S. Reza Mahmoodi, Aris Karapiperis, Hao Lin, German Drazer, Mehdi Javanmard* and Edward P. DeMauro*



519

Electrochemical signal amplification for pathogen nucleic acid detection utilizing a cobalt-based DNA-binding metallo-intercalator

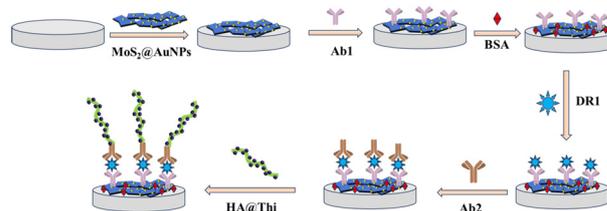
Joshua Rainbow,* Emily P. Judd-Cooper, Simon J. A. Pope, Niklaas J. Buurma and Pedro Estrela*



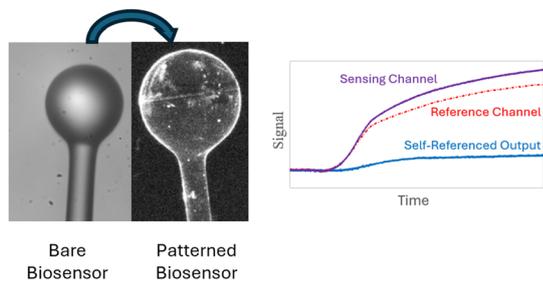
529

Sensitive electrochemical detection of DR1 based on gold nanoparticle-modified MoS₂ and hyaluronic acid-based thionine

Yaping Zhang, Gao Si, Zhendong Wang, Yilong Wang, Xiaojing Cui, Huaixia Yang,* Fuchun Si* and Yanjiu Liu*



mode – selective photopatterning



Mode-directed photopatterning of whispering gallery mode optical resonators

Yuxiang Gao, Vladislav Frenkel, Stephen Arnold* and Rastislav Levicky*

