

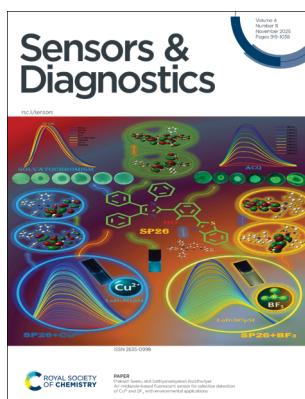
Sensors & Diagnostics

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(11) 919–1038 (2025)



Cover

See Prakash Seenu and Sathiyaranayanan Kulathu Iyer, pp. 973–983.

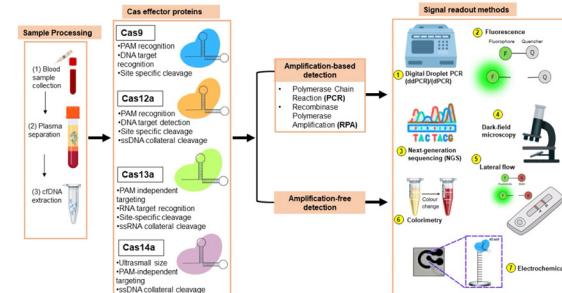
Image reproduced by permission of K. Sathiyaranayanan from *Sens. Diagn.*, 2025, 4, 973.

CRITICAL REVIEW

925

CRISPR-based diagnostics for circulating cell-free DNA: a paradigm shift in precision oncology

Sakshi Seth* and K. Sudhakara Prasad*

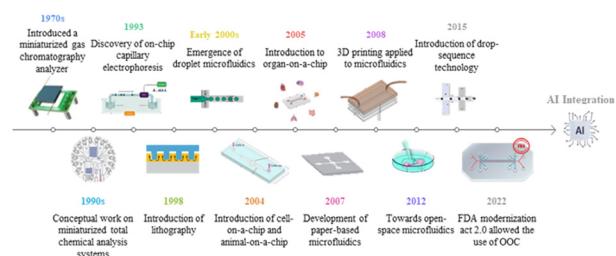


TUTORIAL REVIEW

939

Lab on chip for medical and clinical applications

Bhagyashree Gupte, Umesh Jadhav, Suresh Gosavi* and Shweta Jagtap*





Royal Society of Chemistry approved training courses

Explore your options.
Develop your skills.
Discover learning
that suits you.

**Courses in the classroom,
the lab, or online**

Find something for every
stage of your professional
development. Search our
database by:

- subject area
- location
- event type
- skill level

Members get at least 10% off

Visit rsc.li/cpd-training

**SAVE
10%**

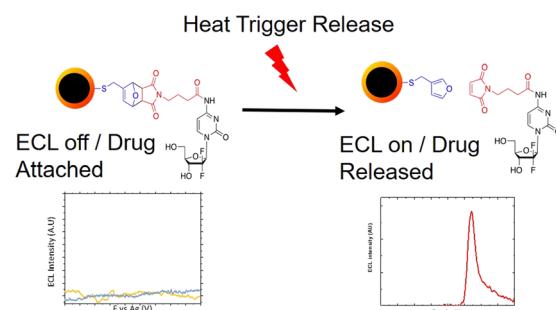


COMMUNICATION

966

Towards electrochemical sensing of gemcitabine release from hybrid nanoparticles in pancreatic cancer cells

Adeolu Oluwasanmi, Kelly Brown, Clare Hoskins* and Lynn Dennany*

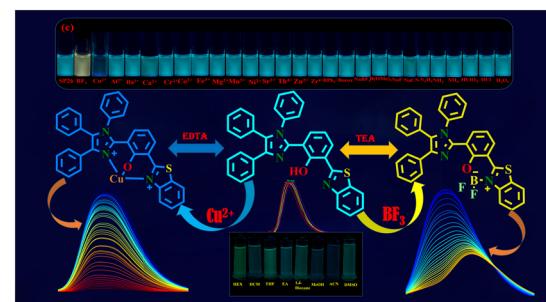


PAPERS

973

An imidazole-based fluorescent sensor for selective detection of Cu^{2+} and BF_3 with environmental applications

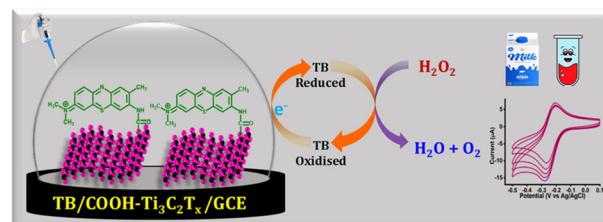
Prakash Seenu and Sathiyanarayanan Kulathu Iyer*



984

Surface-modified titanium carbide MXene as an effective platform for the immobilization of toluidine blue and H_2O_2 biomarker detection in biological samples

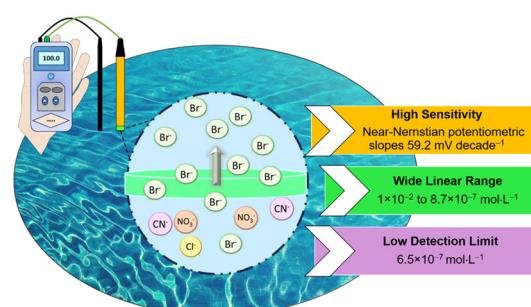
Devarasu Mohanapriya and Kathavarayan Thenmozhi*



995

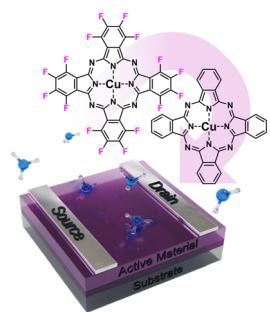
Use of cobalt(II) and chromium(III) metal-based Schiff base complexes for the preparation of potentiometric sensors to determine bromide at ultra-low concentrations

Mohsin Ali, Kousar Jahan, Jitendra Singh,* Ratnesh Kumar Singh, Sudhir Kumar Shroora, Xu Feng and Yanfeng Yue*



PAPERS

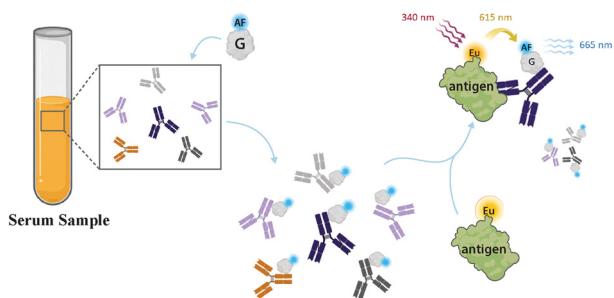
1006



Gate voltage effect on fluorinated and non-fluorinated copper phthalocyanine OTFT-based ammonia sensors

Sofia Gallardo-Pascual, Benjamin King, Sujithkumar Ganesh Moorthy and Benoît H. Lessard*

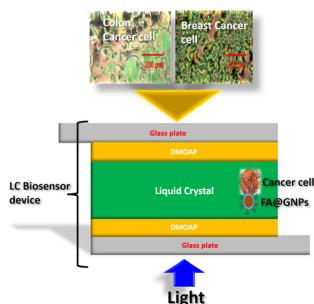
1014



Development of a broadly adaptable TR-FRET serological assay for sensitive and specific detection of infectious disease antibodies in human sera

Walaa A. Bedewy, Claudia C. dos Santos, Marc J. Adler, Guennadi Saiko and Dustin J. Little*

1024



Liquid crystal-based optical platform for the detection of colon and breast cancer cell lines using folic acid-conjugated gold nanoparticles

Anupama Kadam, Rajendra Patil, Sneha Mahalunkar, Muthupandian Ashokkumar, Ratna Chauhan* and Suresh Gosavi*

