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(4) 267-364 (2025)



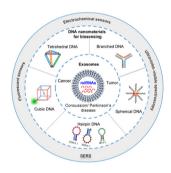
See Keun Seok Seo, Chong Ahn et al.,

pp. 320-335. Image reproduced by permission of Chong Ahn from Sens. Diagn., 2025, 4, 320.

CRITICAL REVIEW

Biological properties and DNA nanomaterial biosensors of exosomal miRNAs in disease diagnosis

Zhikun Zhang, Md. Ahasan Ahamed and Dayong Yang*

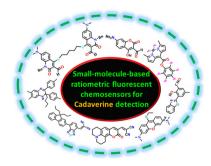


TUTORIAL REVIEW

293

Reactivity-based small-molecule fluorescence probes for sensing biogenic amine cadaverine - a biomarker to determine food freshness

Mannanthara Kunhumon Noushija, Alenthwar Vamshi Krishna, Ruhila Taj Mehboob Ali and Sankarasekaran Shanmugaraju*







EES Batteries

Exceptional research on batteries and energy storage

Part of the EES family

Join Publish with us in rsc.li/EESBatteries

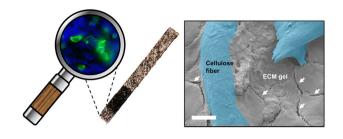
Registered charity number: 207890

COMMUNICATION

310

Paper sensors for the measurement of nitric oxide release from endothelial cells

Syed Hassan Ali and Raphaël Trouillon*

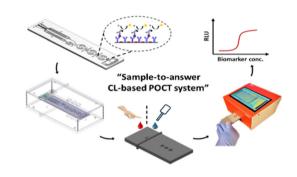


PAPERS

320

A new sequential dual flow lab-on-a-chip with a lyophilized one-component chemiluminescence substrate for high-sensitive microchannel lateral flow assay (mLFA)

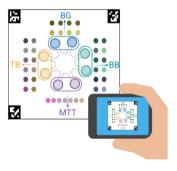
Supreeth Setty, Heeyeong Jang, Jungyoup Han, Joo Youn Park, Nogi Park, Keun Seok Seo* and Chong Ahn*



336

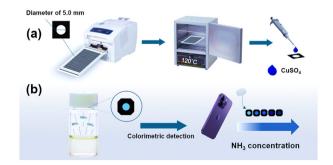
Leveraging synthetic imagery and YOLOv8 for a novel colorimetric approach to paper-based pointof-care male fertility testing

Olgac Özarslan, Begum Kubra Tokyay, Cansu Soylemez, Mehmet Tugrul Birtek, Zihni Onur Uygun, İpek Keles, Begum Aydogan Mathyk, Cihan Halicigil and Savas Tasoglu*



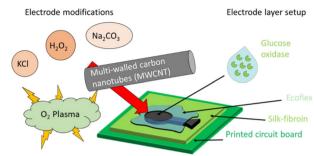
Headspace paper-based analytical device for ammonia quantification in human biological samples

Kawin Khachornsakkul,* Darrien Johnsen and Sameer Sonkusale*



PAPERS

353



Modification of a bioabsorbable carbon electrode on silk-fibroin carriers: setting the composition and adjustment of the working potential

Kevin Alexander Janus, Madita Zach, Stefan Achtsnicht, Aleksander Drinic, Alexander Kopp, Michael Keusgen and Michael Josef Schöning*