

# Sensors & Diagnostics

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## IN THIS ISSUE

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**Cover**  
See Taihong Liu, Molin Qin, Zhiyan Huang *et al.*, pp. 1651–1658.  
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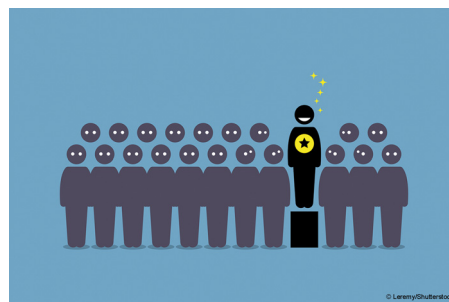


**Inside cover**  
See Sadagopan Krishnan *et al.*, pp. 1659–1671.  
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## EDITORIAL

1589

### Outstanding Reviewers for *Sensors & Diagnostics* in 2023

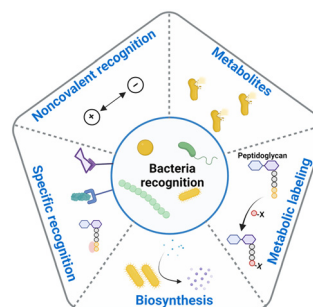


## CRITICAL REVIEW

1590

### Recent advances in sensor arrays aided by machine learning for pathogen identification

Xin Wang, Ting Yang\* and Jian-Hua Wang





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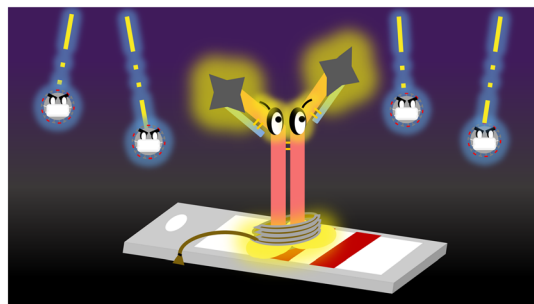


## TUTORIAL REVIEWS

1613

**The importance of antibody orientation for enhancing sensitivity and selectivity in lateral flow immunoassays**

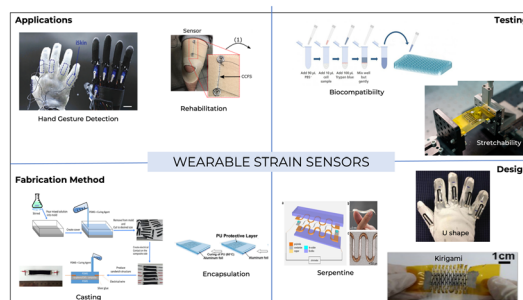
Zhao-Yu Lu and Yang-Hsiang Chan\*



1635

**Wearable strain sensors: design shapes, fabrication, encapsulation and performance evaluation methods**

Nur Nazihah Abu Hassan Zahri, Anis Nurashikin Nordin,\* Norsinnira Zainul Azlan, Ibrahim Hafizu Hassan, Lun Hao Tung, Lai Ming Lim and Zambri Samsudin

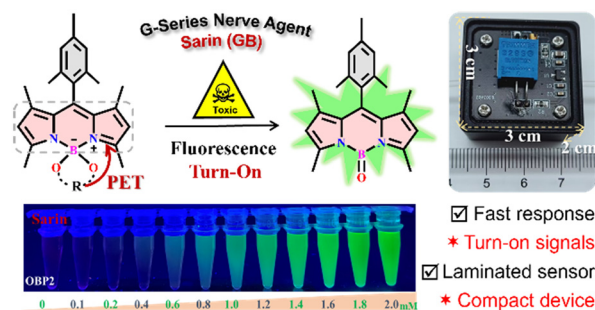


## PAPERS

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**Compact device prototype for turn-on fluorescence detection of sarin based on reactive 4,4-diaryloxy-BODIPY derivatives**

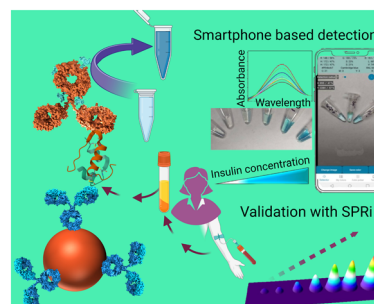
Lu Liu, Sheng Li, Wendan Luo, Jiashuang Yao, Taihong Liu,\* Molin Qin,\* Zhiyan Huang,\* Liping Ding and Yu Fang



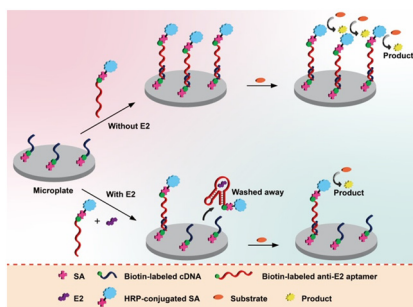
1659

**Colorimetric nano-biosensor for low-resource settings: insulin as a model biomarker**

Zia ul Quasim Syed, Sathya Samaraweera, Zhuo Wang and Sadagopan Krishnan\*



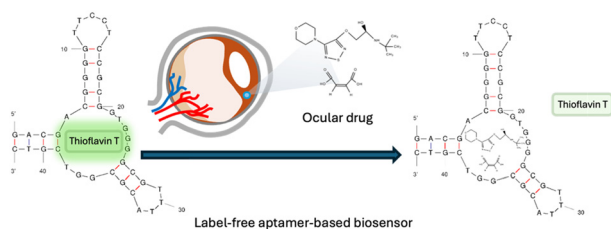
1672



### Competitive horseradish peroxidase-linked aptamer assay for sensitive detection of $17\beta$ -estradiol with a new aptamer

Qiuyi Cheng and Qiang Zhao\*

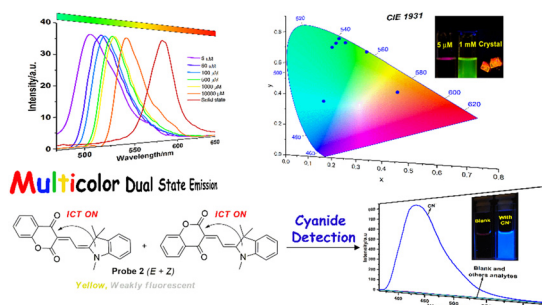
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### Selection of DNA aptamers for sensing drugs treating eye disease: atropine and timolol maleate

Ka-Ying Wong, Yibo Liu, Chau-Minh Phan, Lyndon Jones, Man-Sau Wong and Juewen Liu\*

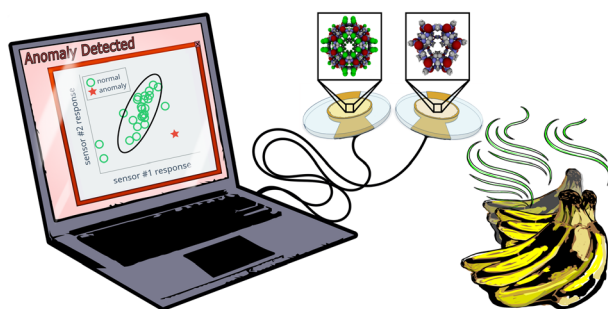
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### A dual state emission luminogen based on the 1,3,3-trimethylindoline and chroman-2,4-dione conjugate for highly selective dual channel detection of cyanide ions

Snehadrinarayan Khatua,\* Sumit Kumar Patra, Monosh Rabha, Deikrisha Lyngdoh Lyngkhoi, Jogat Gogoi and Bhaskar Sen

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### Computationally predicting the performance of gas sensor arrays for anomaly detection

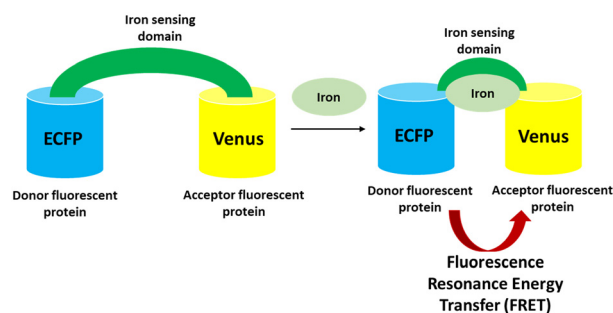
Paul Morris\* and Cory M. Simon\*



1714

## A genetically encoded probe for monitoring and detection of iron in real-time

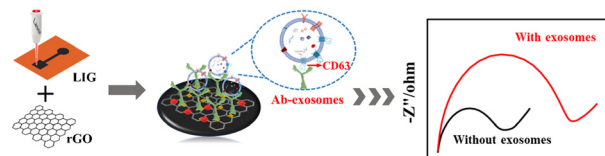
Neha Soleja and Mohd. Mohsin\*



1724

## An rGO-doped laser induced graphene electrochemical biosensor for highly sensitive exosome detection

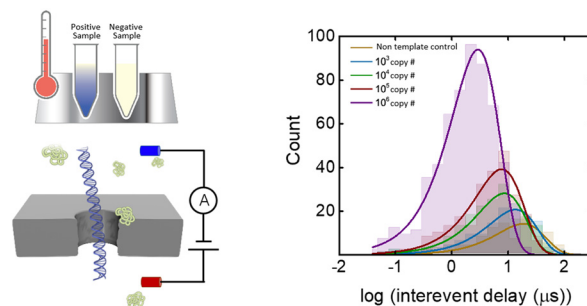
Xiaoshuang Chen, Xiaohui Yan, Jiaoyan Qiu, Xue Zhang, Yunhong Zhang, Hongpeng Zhou, Yujuan Zhao, Lin Han and Yu Zhang\*



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## Solid-state nanopore counting of amplicons from recombinase polymerase isothermal amplification

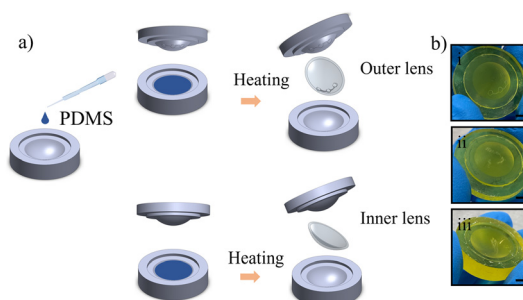
Breeana Elliott, Martin Charron, John Pezacki, Erin McConnell\* and Vincent Tabard-Cossa\*

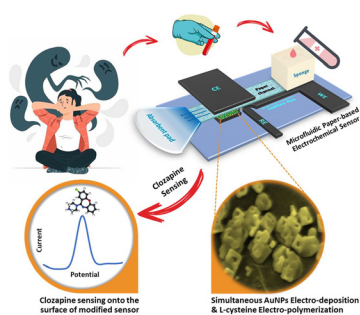


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## Paper integrated microfluidic contact lens for colorimetric glucose detection

Pelin Kubra Isgor, Taher Abbasiasl, Ritu Das, Emin Istif, Umut Can Yener and Levent Beker\*





## Clozapine sensing through paper-based microfluidic sensors directly modified *via* electro-deposition and electro-polymerization

Mohammad Hossein Ghanbari, Markus Biesalski, Oliver Friedrich and Bastian J. M. Etzold\*

