

# Sensors & Diagnostics

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### Cover

See Shalini Prasad *et al.*, pp. 723–735.  
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Body illustration generated with Google Gemini, background and hand graphics *via* Adobe Stock

## EDITORIAL

721

### Introduction to “Lateral Flow Assays: Methods and Applications”

Jing Wang,\* Jiangjiang Zhang and Yanmin Ju

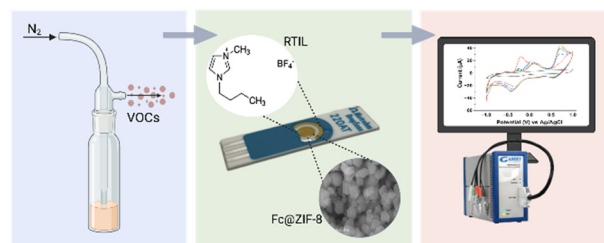


## PAPERS

723

### Fc@ZeNose platform for the detection of four physiologically relevant breath biomarkers: a case study using ethanol, isopropanol, acetic acid, and acetone

Nikini Subawickrama Mallika Widanaarachchige, Anirban Paul, Sriram Muthukumar and Shalini Prasad\*



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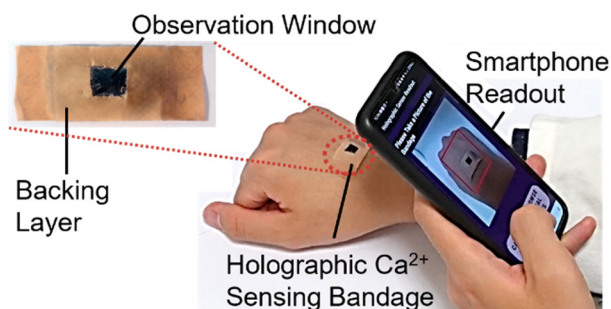
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### Holographic hydrogel bandage sensor for continual monitoring of wound healing

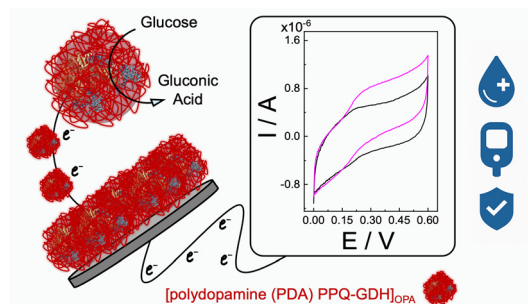
Yihan Zhang, Yubing Hu, Zhenkang Zhu, Yunuen Montelongo, Yanting Liu, Shihabuddeen Waqar, Yoon Soo Park, Leon CZ Chan, Nan Jiang and Ali K. Yetisen\*



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### One-pot assembling pyrroloquinoline quinone glucose dehydrogenase with polydopamine to overcome the reproducibility issues of layer-by-layer electrode development

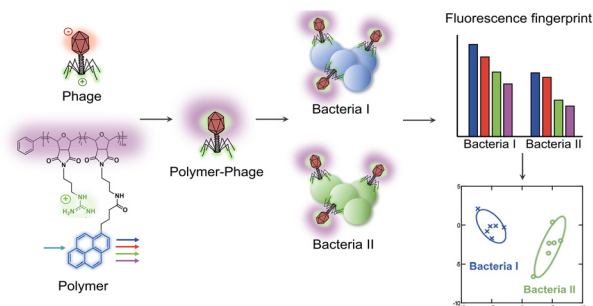
Alessandra Cimino, Shixin Wang, Verdiana Marchianò, Angelo Tricase, Angela Stefanachi, Eleonora Macchia, Blanca Cassano, Luisa Torsi, Xiaoming Zhang\* and Paolo Bollella\*



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### Array-based polymer-phage biosensors for detection and differentiation of bacteria

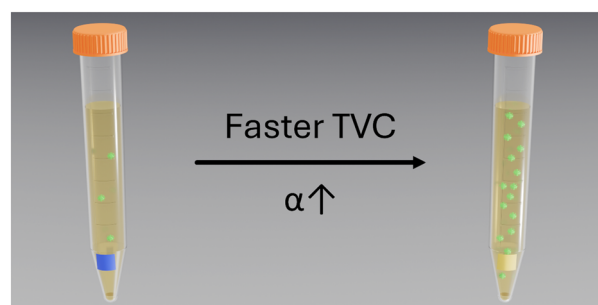
Enkhlin Ochirbat, Junwhhee Yang, Aritra Nath Chattopadhyay, Jungmi Park, Mingdi Jiang, Jan Paczesny\* and Vincent M. Rotello\*



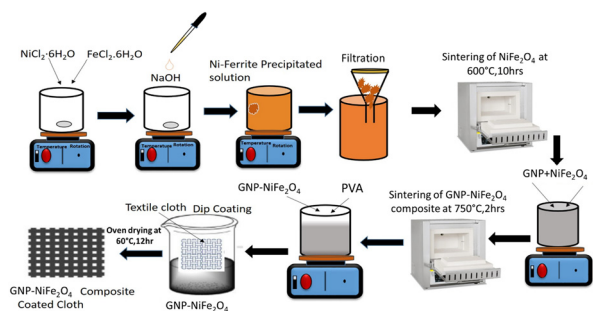
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### CO<sub>2</sub>-sensitive inks for the rapid measurement of total viable count (TVC) using micro-respirometry

Sean Cross, Christopher O'Rourke and Andrew Mills\*



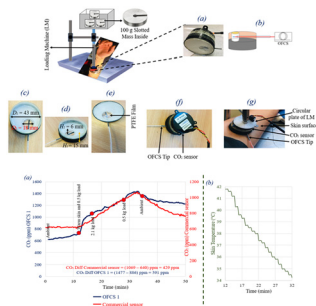
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### Graphene nanoplatelet–nickel ferrite coated textile-based embroidered capacitive pressure sensor for wearable electronics application

Aqrab ul Ahmad,\* Saima Qureshi,\* Mitar Simić, Hafiz Abdul Mannan, Sonam Goyal, Francis Leonard Deepak and Goran M. Stojanović

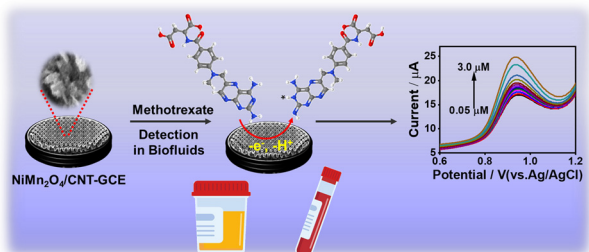
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### Novel approach to monitor local tissue ischemia associated with pressure ulcers using an optical fibre carbon dioxide sensor

Nadia Afroze, Serhiy Korposh,\* Ricardo Correia, Peter R. Worsley, Barrie R. Hayes-Gill, Seung-Woo Lee and Stephen P. Morgan

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### Ultrasensitive electrochemical detection of methotrexate in biological fluids using NiMn<sub>2</sub>O<sub>4</sub>/CNT nanocomposite-modified electrode

Nasir Abbas and Tae Hyun Kim\*

