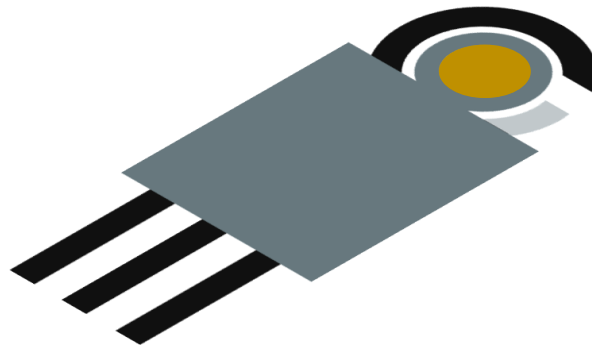




Sense4Med

Smart Sensors for Sustainable Life

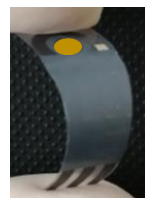


Gold Screen-printed electrodes

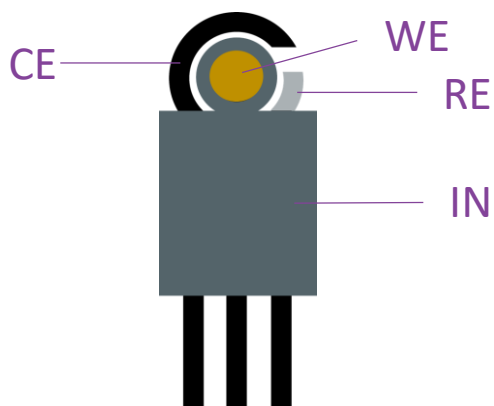
www.sense4med.com



These electrodes are fabricated by screen-printing technology on a flexible and high-resist polyester support.



Screen-printed features



- **Standard dimensions** 28 x 12 mm

- **Substrate** Polyester

- **Substrate dimension** 125 μm

- **WE surface area** 7 mm^2

- **Sample volumes** 20-200 μL

- **Electrode materials**

Working electrode (WE) Gold

Reference electrode (RE) Silver

Counter electrode (CE) Graphite

Insulating (IN) Dielectric paste

➤ Applications

Biomedical

Materials

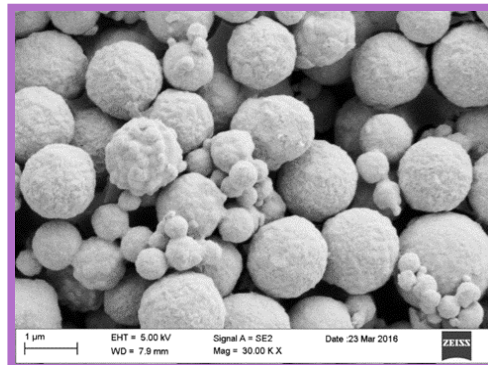
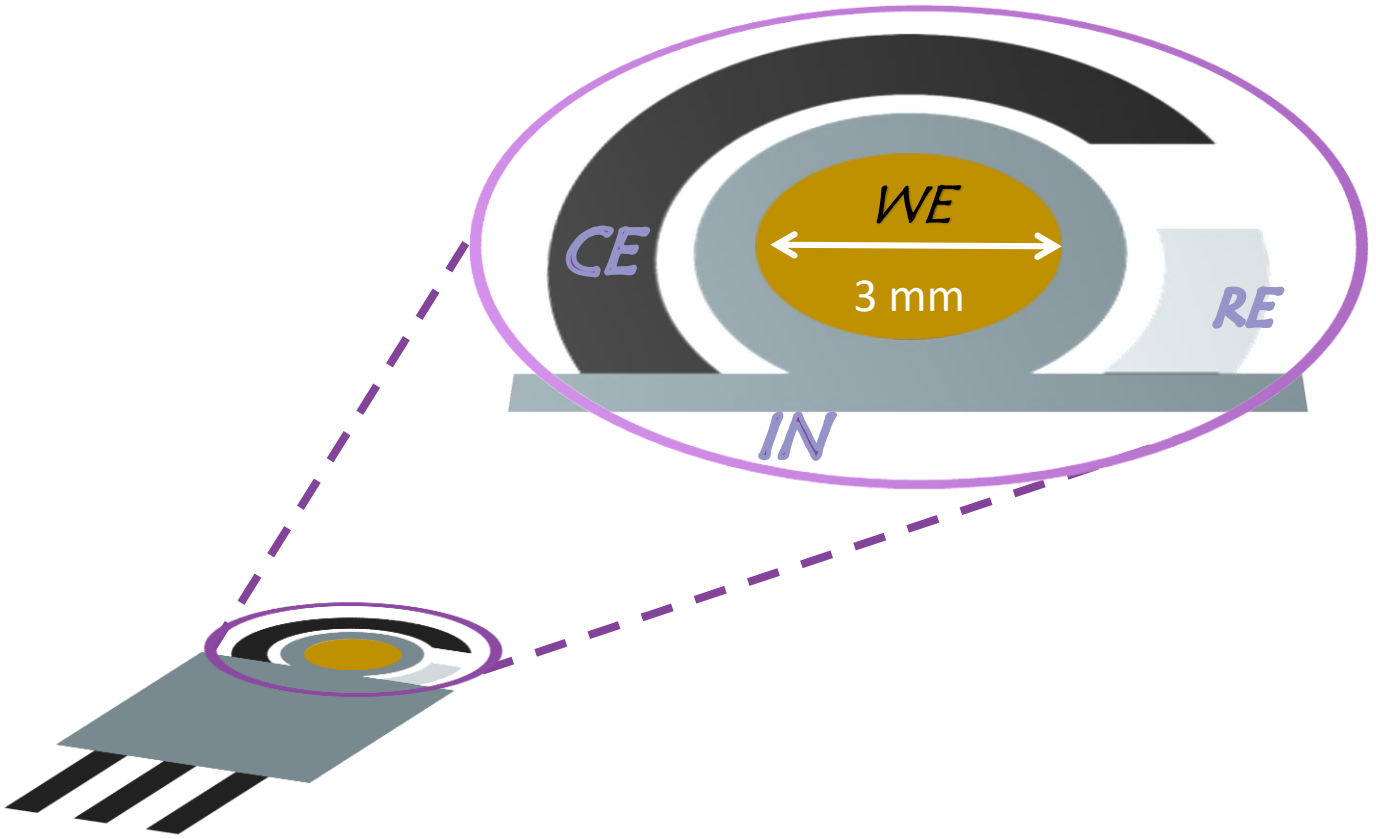
Environmental

Defence

Printed electrodes are a suitable tool for multiple applications, providing many advantages such as miniaturization, low-cost, disposable, low reagent consumption.



Electrochemical cell

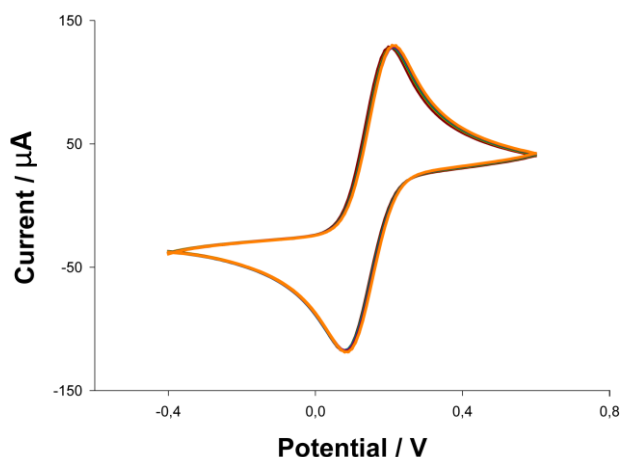


SEM Image

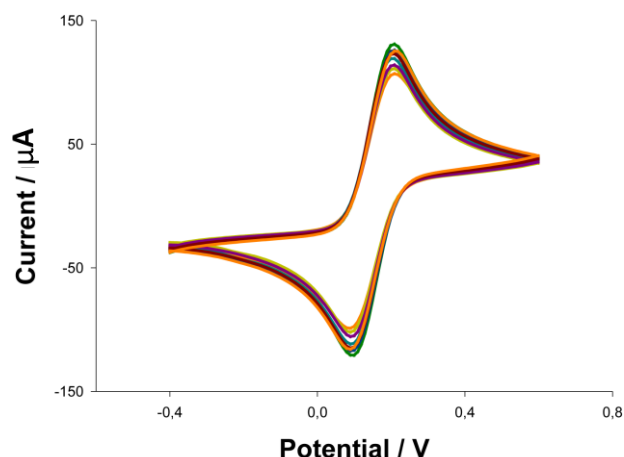
Gold screen-printed electrode



Performances



Cyclic voltammograms for 5 mM $K_4Fe(CN)_6$ in 100 mM KCl using the same gold screen-printed electrode. Scan rate= 100 mV/s, n=10, **RSD% = 1%**.



Cyclic voltammograms for 5 mM $K_4Fe(CN)_6$ in 100 mM KCl using different gold screen-printed electrodes. Scan rate= 100 mV/s, n=10, **RSD% = 2%**.

➤ Intra-electrode Repeatability

➤ Inter-electrode Repeatability



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