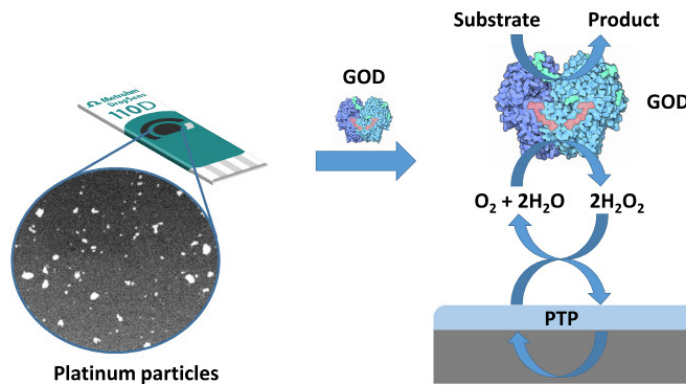


Screen-Printed Carbon Electrodes modified with Particles

Ref. 110PDP, 110AUP, 110PTP, 110RHP and 110IRP

01

Screen-Printed Carbon Electrodes (SPCEs) are modified with particles deposited in surface of the working electrode.



The electrochemical cell consist on:

Working electrode: palladium, gold, platinum, rhodium or iridium particles/carbon (4mm diameter)

Auxiliary electrode: carbon

Reference electrode: silver

Electric contacts: silver

Ceramic substrate: L34 x W10 x H0.5 mm

Specifications by modification:

Palladium particles modified SPCEs are designed for detecting hydrogen peroxide in enzymatic oxidase based sensors. A catalytic oxidation of H₂O₂ can be determined at low potentials, i.e. +0.1 V, by chronoamperometry or linear sweep voltammetry.

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Screen-Printed Carbon Electrodes modified with Particles

02

Ref. 110PDP, 110AUP, 110PTP, 110RHP and 110IRP

Gold particles modified SPCEs are designed to improve the electroactive area of the electrode to increase the electronic transfer properties and to make easier the latter immobilization of biomolecules such as oligonucleotides, antibodies, proteins, etc.

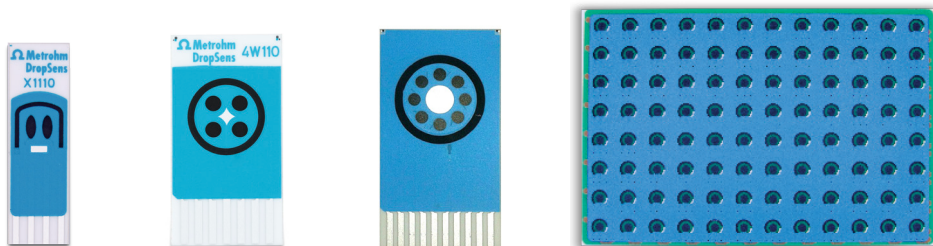
Platinum particles modified SPCEs are designed for detecting hydrogen peroxide in enzymatic oxidase based sensors or other applications. A catalytic oxidation of H₂O₂ can be determined at low potentials, i.e. +0.1 V, by chronoamperometry or linear sweep voltammetry.

Rhodium particles modified SPCEs can be used for different electrocatalytical applications such as monitorization of hydrogen peroxide, hydrogen evolution, oxygen reduction reaction, formic acid or methanol oxidation reactions, halogens or reduction of inorganic nitrogen, as nitrate or nitric oxide.

Iridium particles modified SPCEs can be used for different electrocatalytical applications such as monitorization of hydrogen peroxide, oxygen evolution reaction, triglycerides detection or proton sensing in pH devices.

Screen-Printed Carbon Electrodes modified with particles are commercialized in 50 units packs. The sensors should be stored at room temperature in a dry place.

Also, this modified SPCEs are available in dual, 4W, 8W and 96X formats:



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