

Supporting information

WO₃ nanoparticles-based conformable pH sensor

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1. Electrodeposition set-up

The sensing layer was produced by electrodeposition of an WO_3 nanoparticles dispersion with constant current appliance of $20\ \mu\text{A}$ during 900 s in a three electrode configuration.

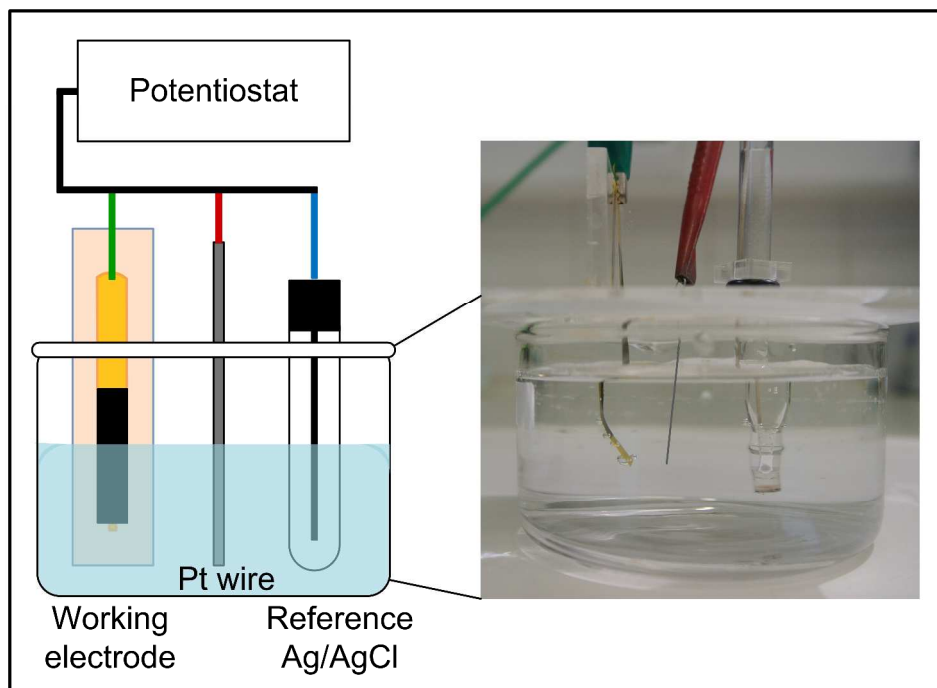


Figure S1. Schematic and real image of the electrodeposition set-up composed by WO_3 nanoparticles dispersion in water, flexible gold working electrode, platinum wire as counter electrode and Ag/AgCl as reference electrode

2. Electrochemical impedance spectroscopy of Ag/AgCl flexible reference electrode

Electrochemical impedance spectroscopy (EIS) was performed during the production of the reference electrode, before (after anodization of the Ag layer) and after saturation in 3 M KCl solution. This process enabled the stabilization of the reference electrode.

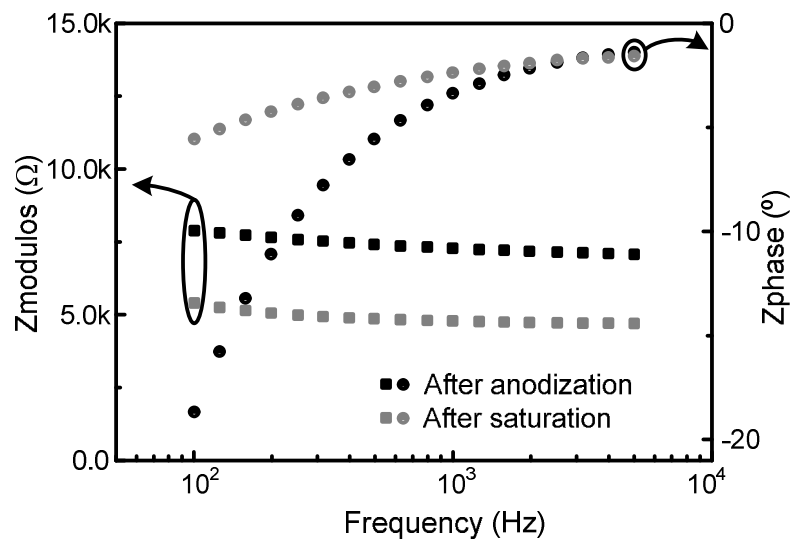


Figure S2. Impedance modulus and phase angle of the flexible reference electrode after anodization of the Ag layer and saturation in KCl solution.