Supplementary material

MIP-Based Screen-Printed Potentiometric Cell for Atrazine Sensing

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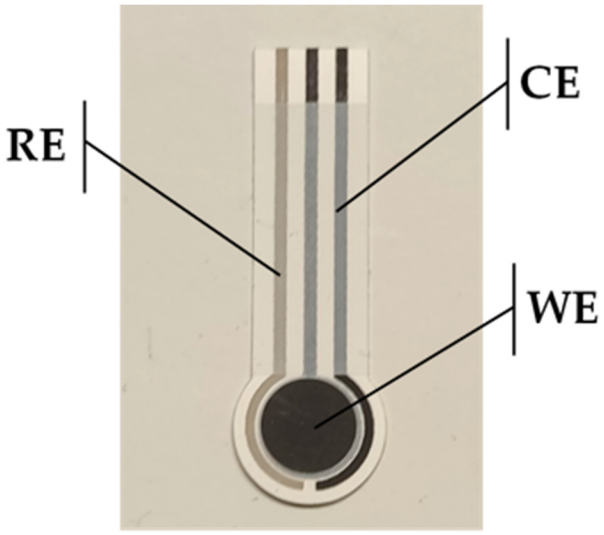
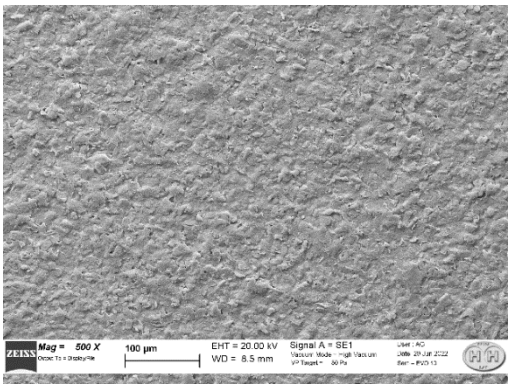
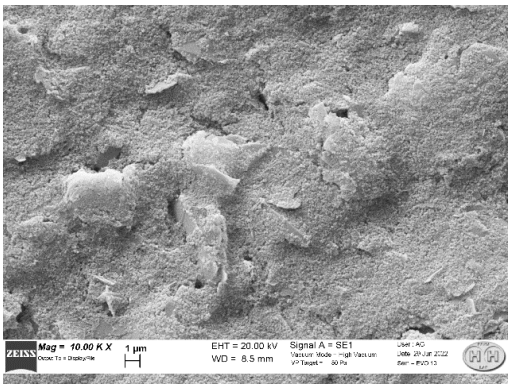


Figure S1. Picture of the screen-printed cell Topflight Italia (S.P.A.). The working (WE) and the counter electrodes (CE) by graphite-ink and the pseudoreference electrode (RE) by silver/silver chloride-ink.

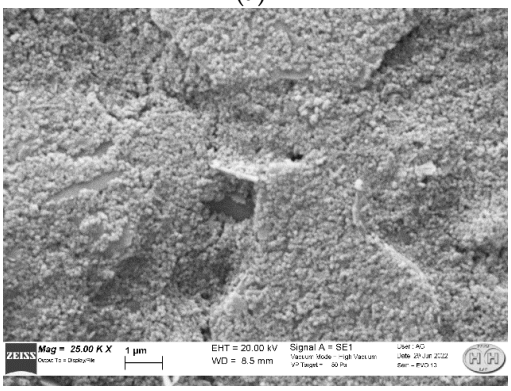
Figure S2. Picture of the experimental setup for potentiometric and electrochemical impedance spectroscopy (EIS) measurements.


Mag = 500 X
100 µm
EHT = 20.00 kV
WD = 8.5 mm
Signal A = SE1

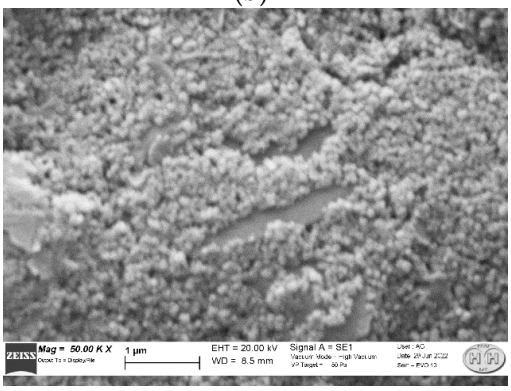
(**a**)


Mag = 10.00 K X
1 µm
EHT = 20.00 kV
WD = 8.5 mm
Signal A = SE1

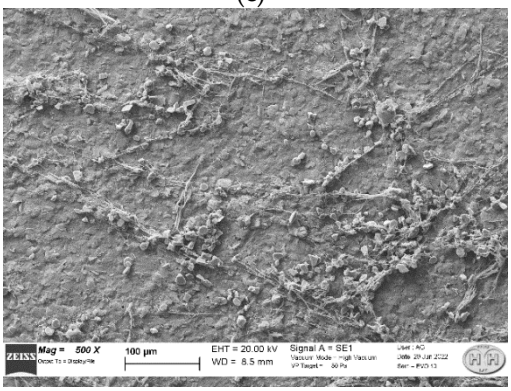
(**b**)


Mag = 25.00 K X
1 µm
EHT = 20.00 kV
WD = 8.5 mm
Signal A = SE1

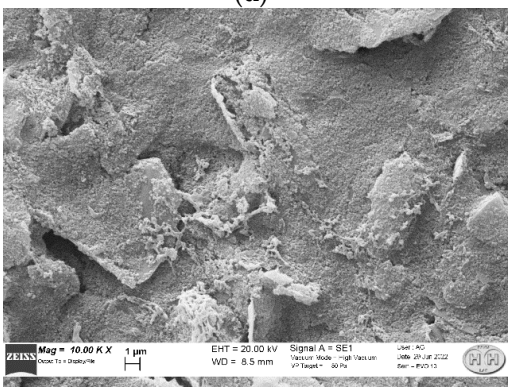
(**c**)


Mag = 50.00 K X
1 µm
EHT = 20.00 kV
WD = 8.5 mm
Signal A = SE1

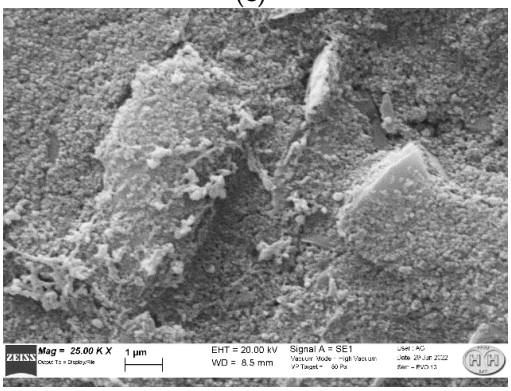
(**d**)


Mag = 500 X
100 µm
EHT = 20.00 kV
WD = 8.5 mm
Signal A = SE1

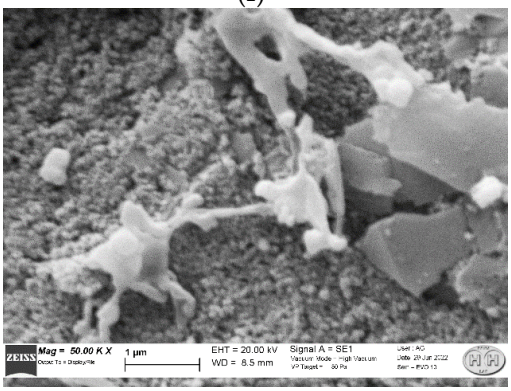
(**e**)


Mag = 10.00 K X
1 µm
EHT = 20.00 kV
WD = 8.5 mm
Signal A = SE1

(**f**)


Mag = 25.00 K X
1 µm
EHT = 20.00 kV
WD = 8.5 mm
Signal A = SE1

(**g**)


Mag = 50.00 K X
1 µm
EHT = 20.00 kV
WD = 8.5 mm
Signal A = SE1

(**h**)

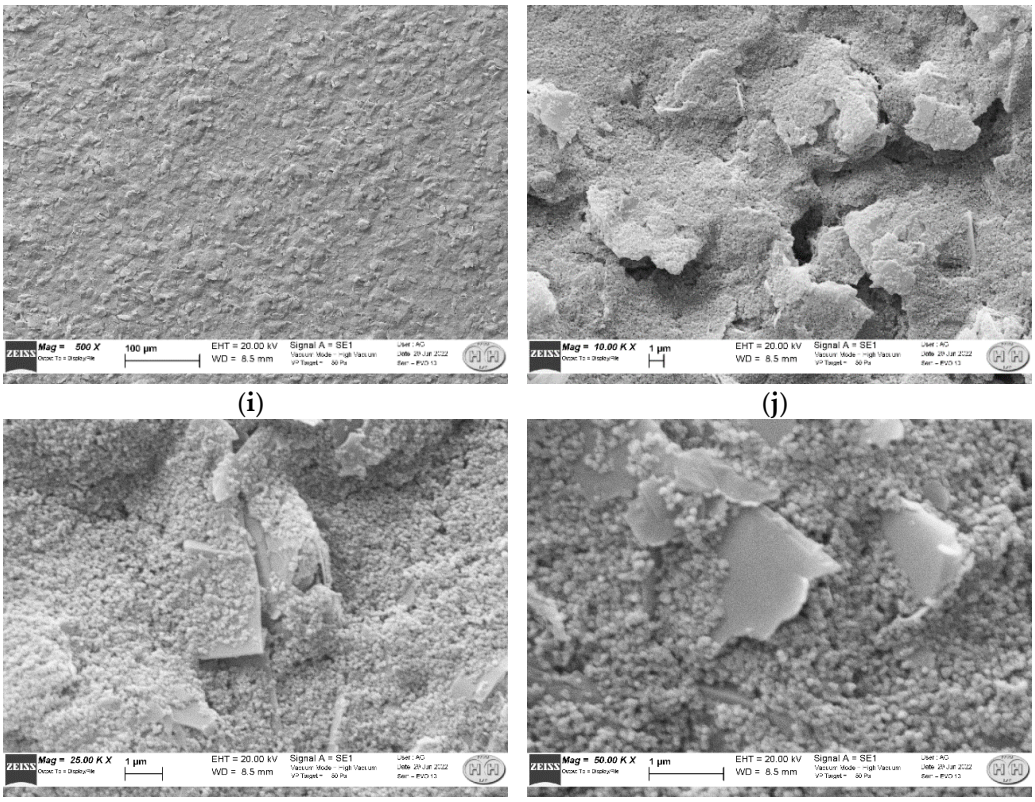
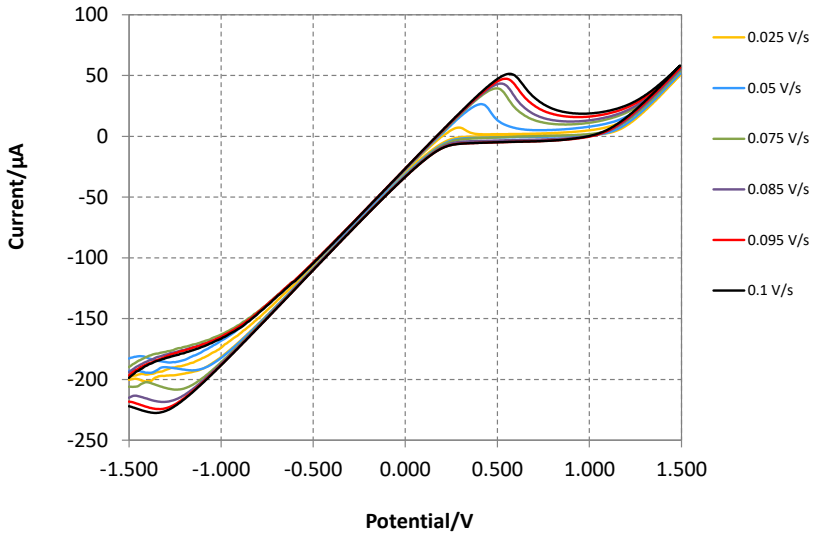
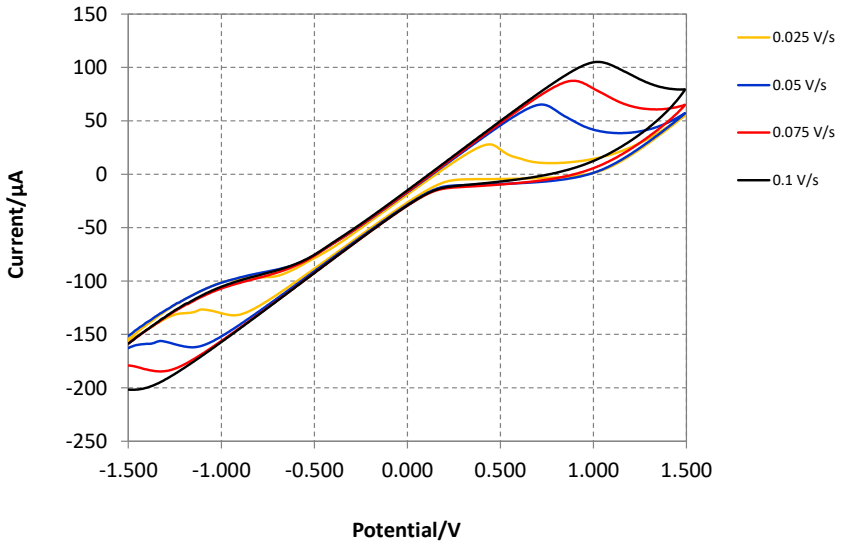


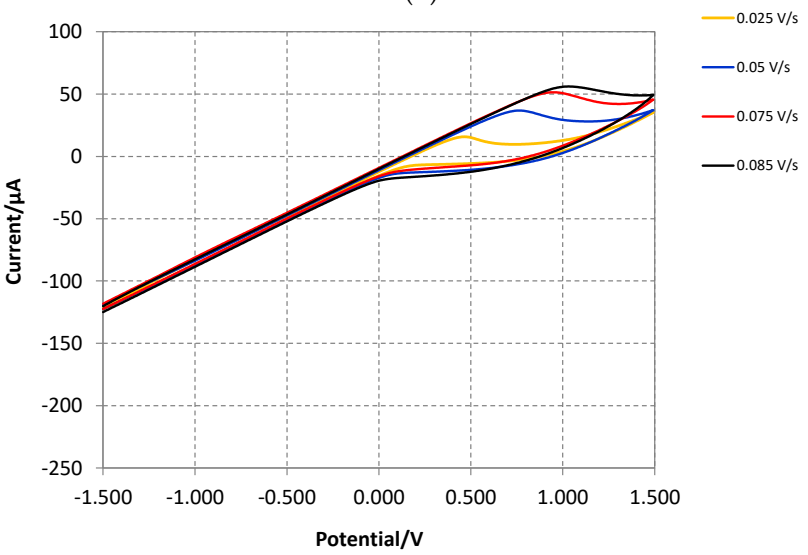
Figure S3. SEM images of the sensors:-bare (**a**–**d**), MIP modified electrode (**e**–**h**), and NIP modified electrode (**i**–**l**).



(**a**)



(**b**)



(**c**)

Figure S4. Cyclic voltammograms for the (**a**) bare, (**b**) MIP, and (**c**) NIP modified electrodes.

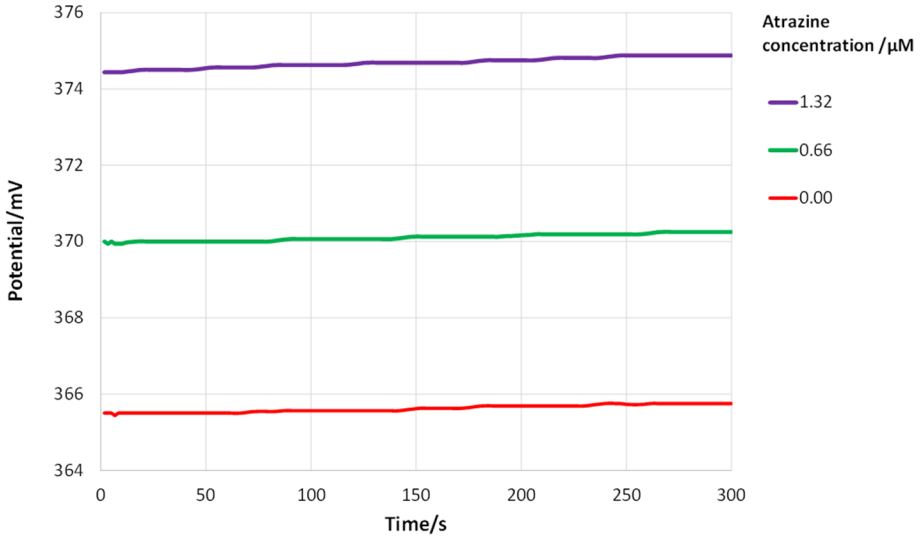


Figure S5. Potentiometric response of a MIP-based screen-printed cell at three different atrazine concentrations in HCl solution at pH = 1.5. Steady-state reached in 5 min.