

Supplementary Material

A MIP-enabled stainless-steel microneedle sensor for electrochemical detection of aflatoxin B1

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Fig. S1 Image of the electrochemical setup using the microneedle electrode.

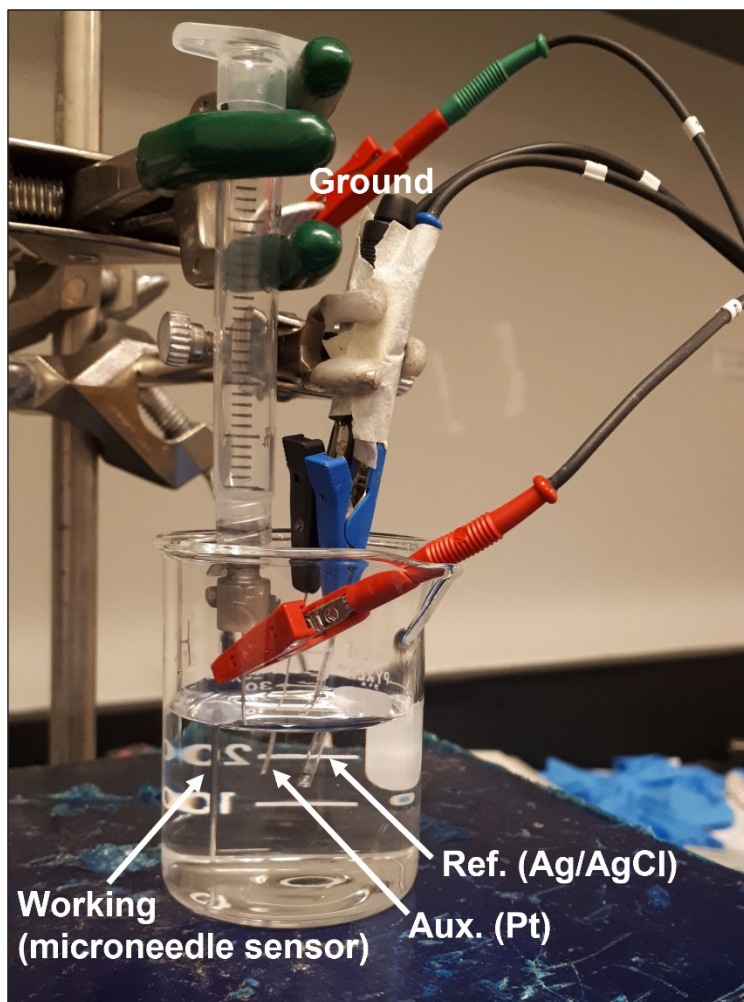


Fig. S2 Overlapped voltammograms of electrochemical removal of DMC from PANI@MIP/CNC-CNT/microneedle sensor.

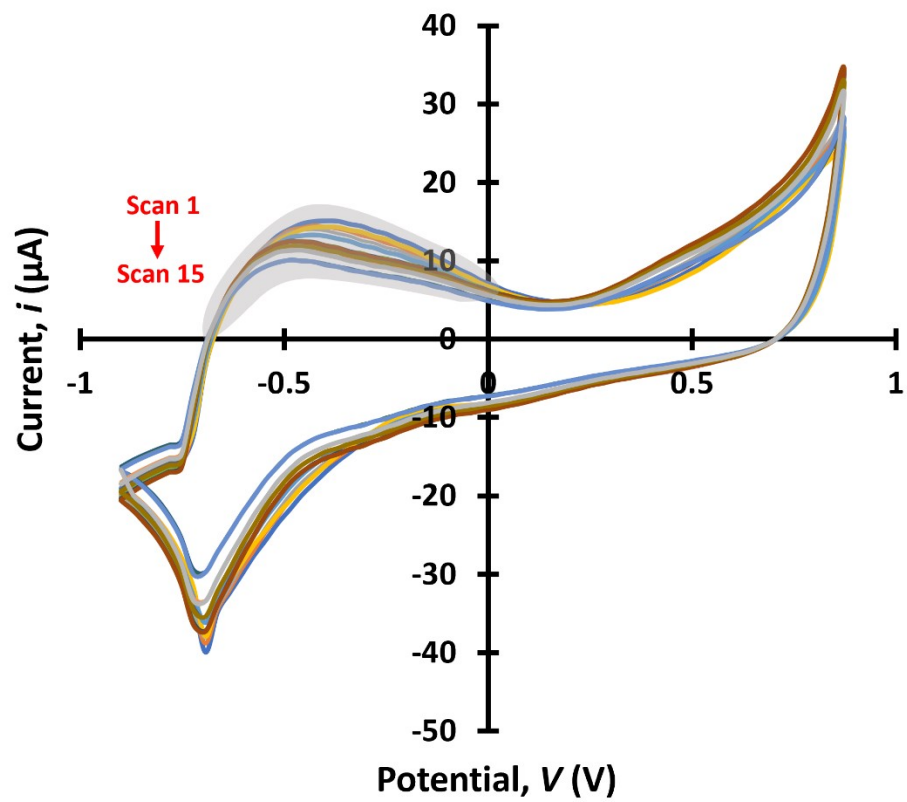


Fig. S3 (A) SEM image of PANI@MIP/CNC-CNT printed on a flat polyvinyl acetate transparency; (B) Image highlighting the pores on the PANI@MIP/CNC-CNT SEM image generated using the particle finder function of ImageJ software; (C) SEM image of PANI@NIP/CNC-CNT printed on a flat transparency; (D) Image highlighting the pores on the PANI@NIP/CNC-CNT SEM image generated using the particle finder function of ImageJ software.

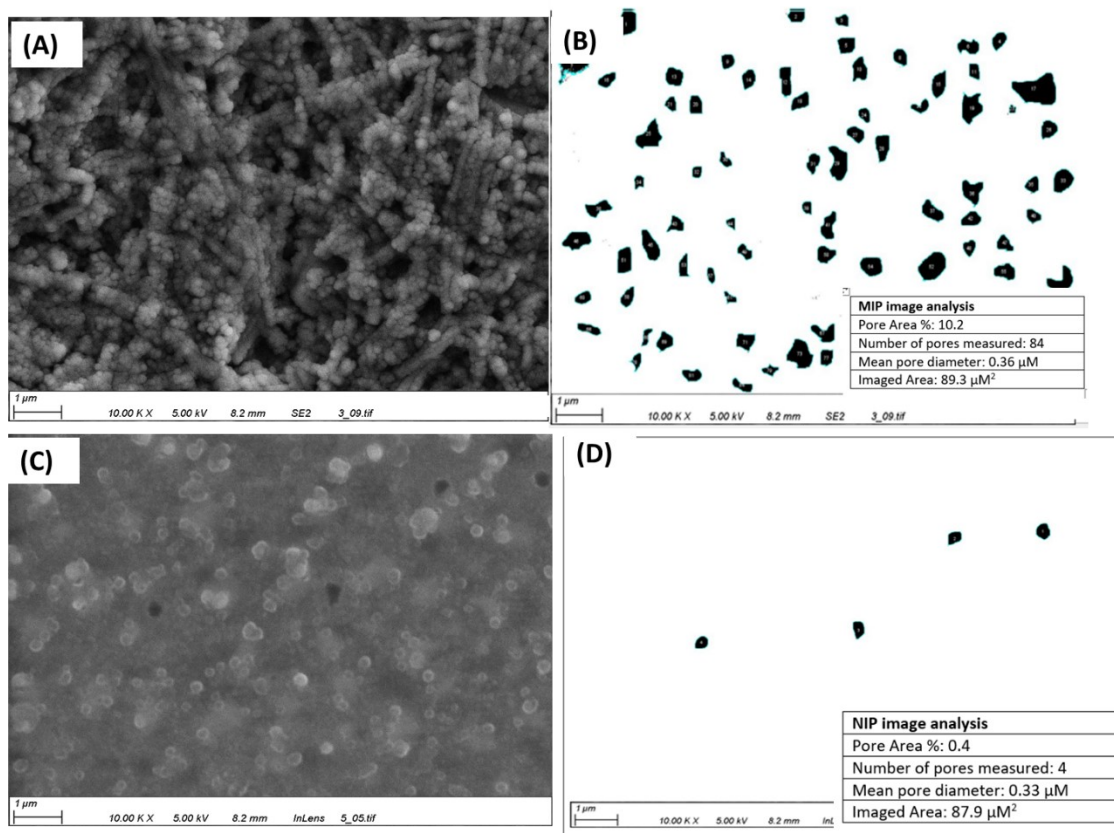


Fig. S4 Overlapped voltammograms of the electrochemical cleaning of AFB1 from the PANI@MIP/CNC-CNT/microneedle sensor for (A) cycle 1 and (B) cycle 7 of the sensor reusability experiment.

