

## Supplementary Materials

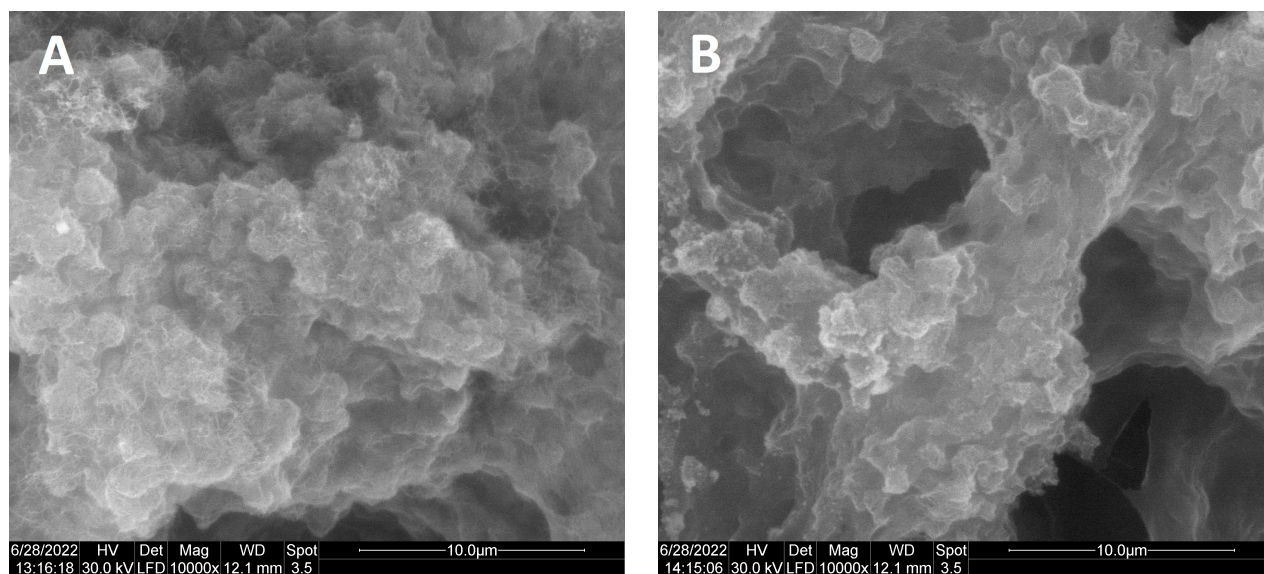
# Flexible miniaturized electrochemical sensors based on multi-walled carbon nanotube-chitosan nanomaterial for determination of nitrite in soil solutions

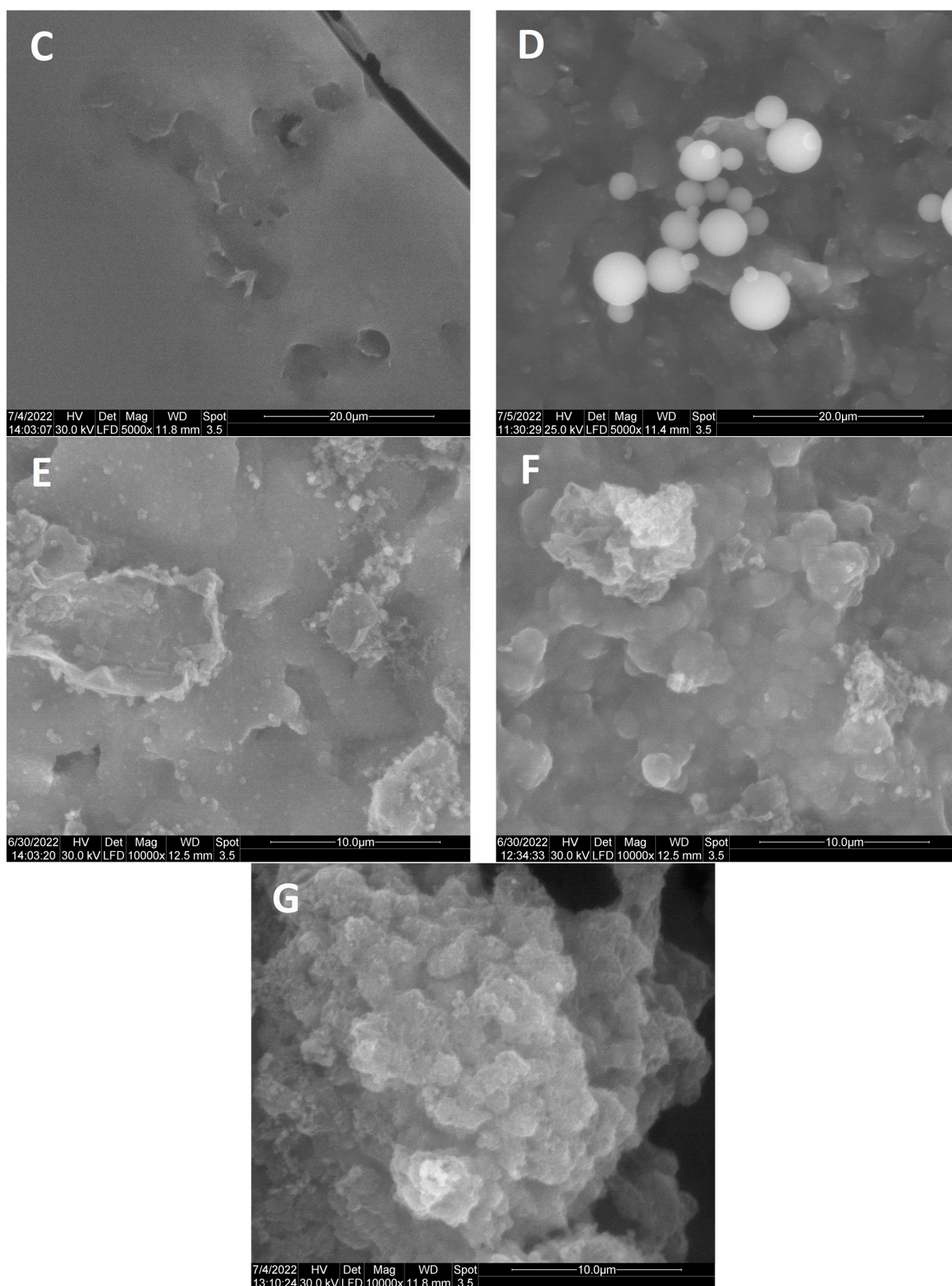
Ana-Maria Gurban<sup>1,\*</sup>, Lucian-Gabriel Zamfir<sup>1</sup>, Petru Epure<sup>2</sup>, Ioana-Raluca Șuică-Bunghez<sup>1</sup>, Raluca Mădălina Senin<sup>1</sup>, Maria-Luiza Jecu<sup>1</sup>, Maria Lorena Jinga<sup>1</sup>, Mihaela Doni<sup>1,\*</sup>

<sup>1</sup> National Research & Development Institute for Chemistry & Petrochemistry - ICECHIM; 202 Spl. Independentei, 060021, Bucharest, Romania; ana-maria.gurban@icechim.ro (A-MG); Lucian.zamfir@icechim.ro (L-GZ); petru.epure@epi.ro (PE); raluca.bunghez@icechim.ro (I-RS-B); raluca.senin@icechim.ro (RMS); jecu.luiza@icechim.ro (M-LJ); lorena.jinga@icechim.ro (MLJ); mihaela.doni@icechim.ro (MD)

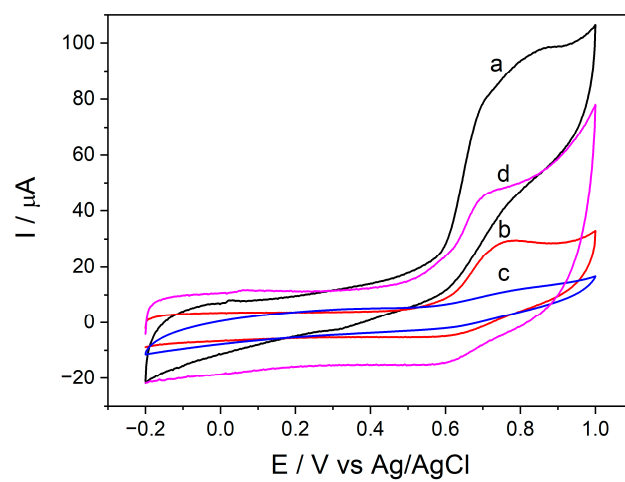
<sup>2</sup> EPI-SISTEM SRL, 17A Livezii, Sacele, Brasov, Romania

\*Correspondence: mihaela-doni@icechim.ro (M.D.); ana-maria.gurban@icechim.ro (A-MG); Tel.: +40-213-163-063 (M.D.)





**Figure S1.** SEM images of: (A) MWCNT-AgNP/SPE; (B) MWCNT-AgNP-CS/SPE; (C) MWCNT-SG/SPE; (D) MWCNT-AgNP-SG/SPE; (E) 1,8-DAN/SPE; (F) MWCNT-1,8-DAN/SPE and (G) MWCNT-AgNP-1,8-DAN/SPE



**Figure S2.** Cyclic voltammograms recorded for: MWCNT-AgNP/SPE (a), MWCNT-AgNP-CS/SPE (b), MWCNT-AgNP-1,8-DAN/SPE (c) and MWCNT-AgNP-SG/SPE (d). (PBS 0.1M, pH 7,  $v=0.05$  V/s).