



Supplementary Materials

# Novel Nitrate Ion-Selective Microsensor Fabricated by Means of Direct Ink Writing

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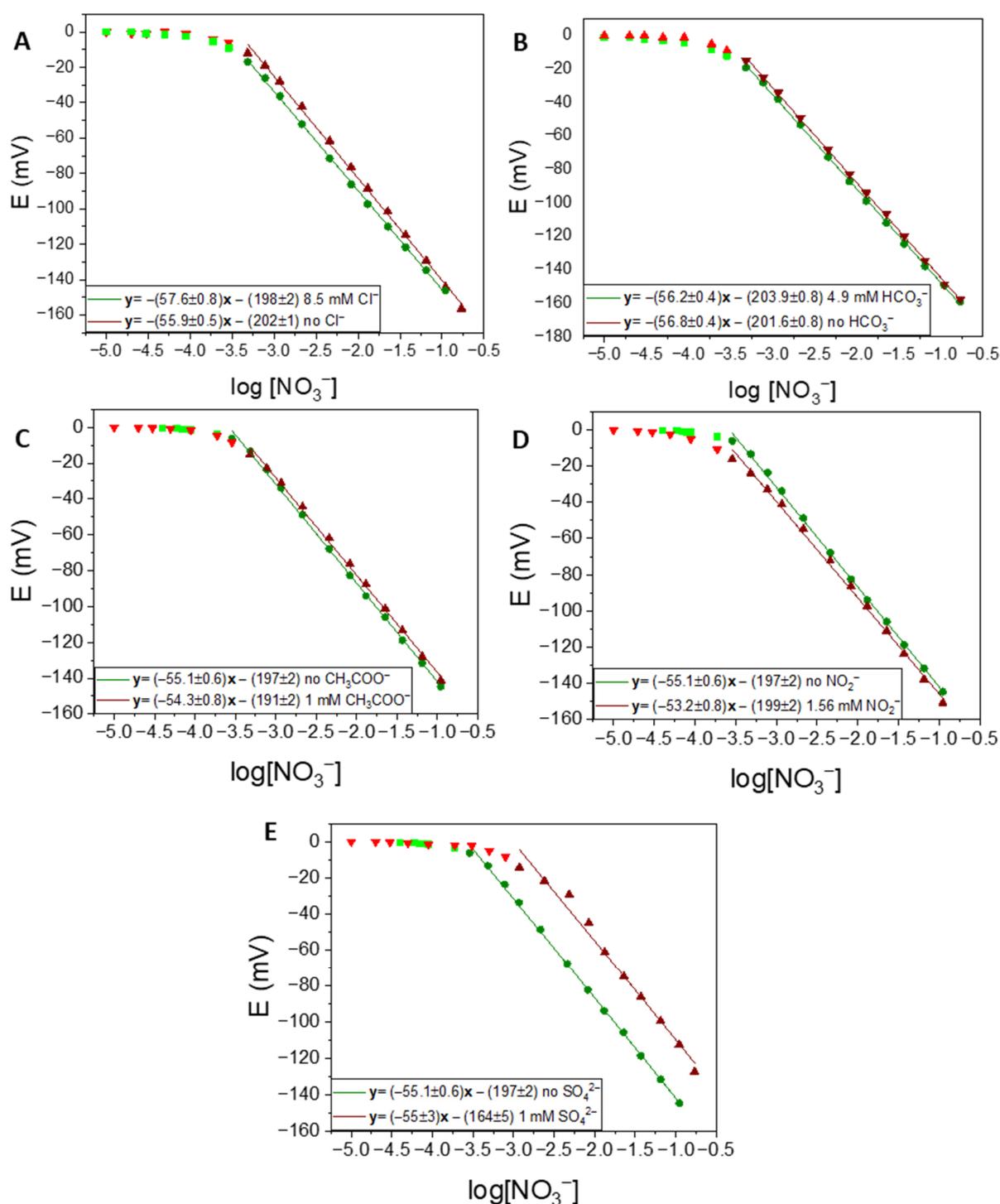
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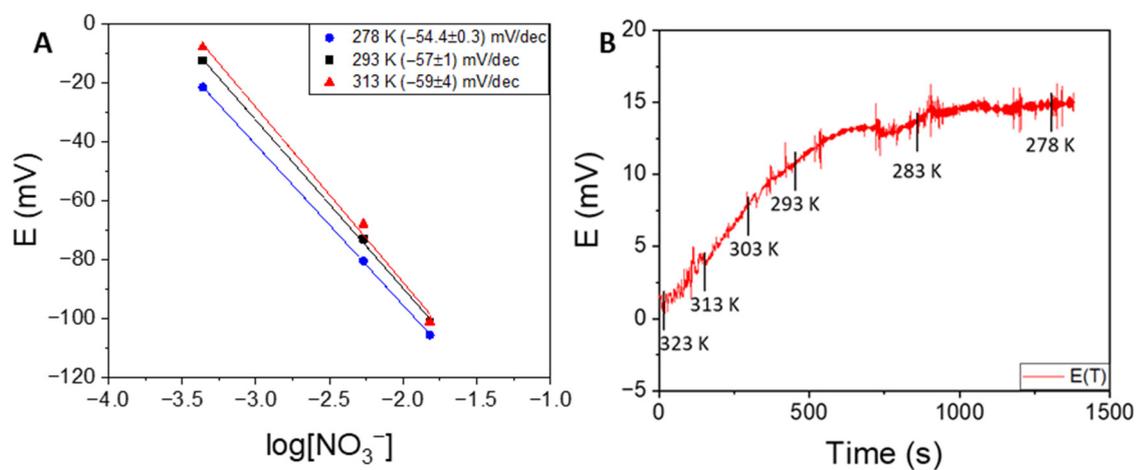
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**Figure S1.** Calibrations performed of  $\text{NO}_3^-$  sensor in the presence and absence of the most likely interferents. (A) Interference study of chloride ion, green line belongs to a calibrate without  $\text{Cl}^-$  and red line to one with 8.5 mM of  $\text{Cl}^-$ . (B) Interference study of bicarbonate ion, green line belongs to a calibrate without  $\text{HCO}_3^-$  and the red line to one with 4.9 mM of  $\text{HCO}_3^-$ . (C) Interference study of nitrite ion, green line belongs to a calibrate without  $\text{NO}_2^-$  and the red line to one with 1.56 mM of  $\text{NO}_2^-$ . (D) Interference study of acetate ion, green line belongs to a calibrate without  $\text{CH}_3\text{COO}^-$  and the red line to one with 1 mM of  $\text{CH}_3\text{COO}^-$ . (E) Interference study of sulfate ion, green line belongs to a calibrate without  $\text{SO}_4^{2-}$  and the red line to one with 1 mM of  $\text{SO}_4^{2-}$ .



**Figure S2.** Studies of the sensor's behavior at different temperatures. (A) Change in sensitivity at three different temperatures. (B) Variation of the measured potential to 0.1 M  $\text{NO}_3^-$  as temperature changes.