

Highly Sensitive Detection of Hg^{2+} Using Covalent Linking Single-strand DNA to the Surface of Graphene Oxide with Co-anchor Strand

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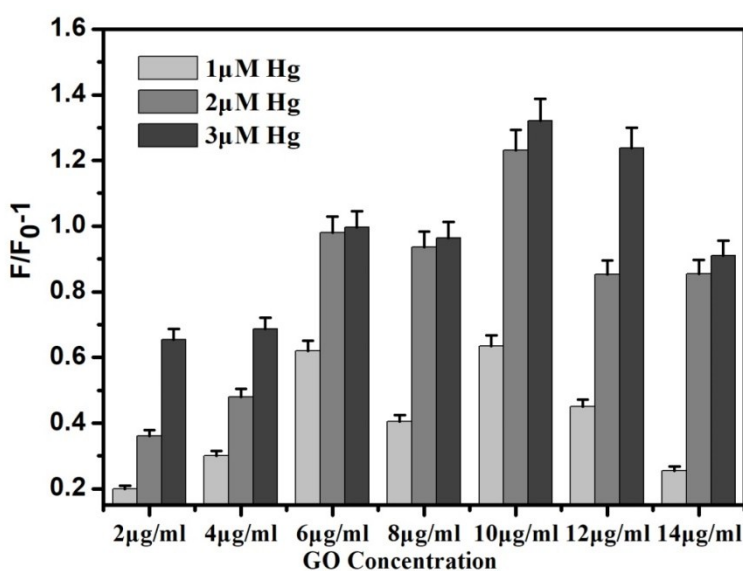


Fig.S1. Fluorescence recovery rate after adding different concentrations of Hg^{2+} at different activated GO concentrations

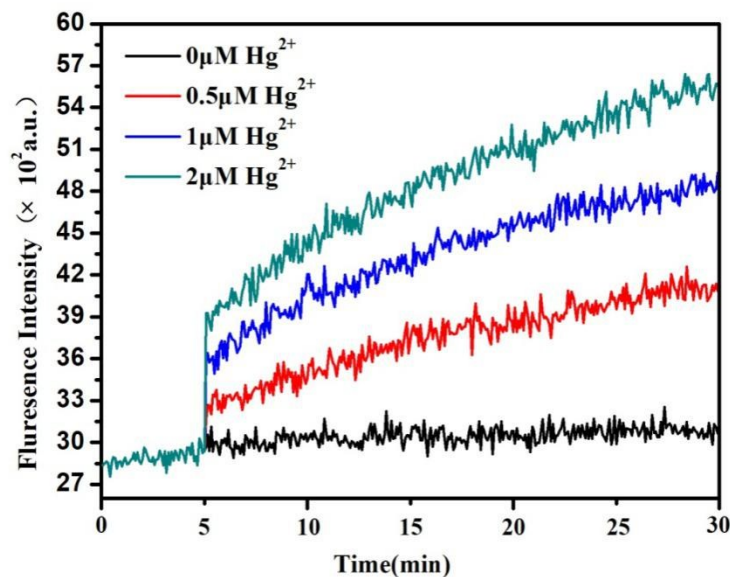


Fig.S2. The fluorescence intensity of ss-DNA biosensor after adding Hg^{2+} at different time

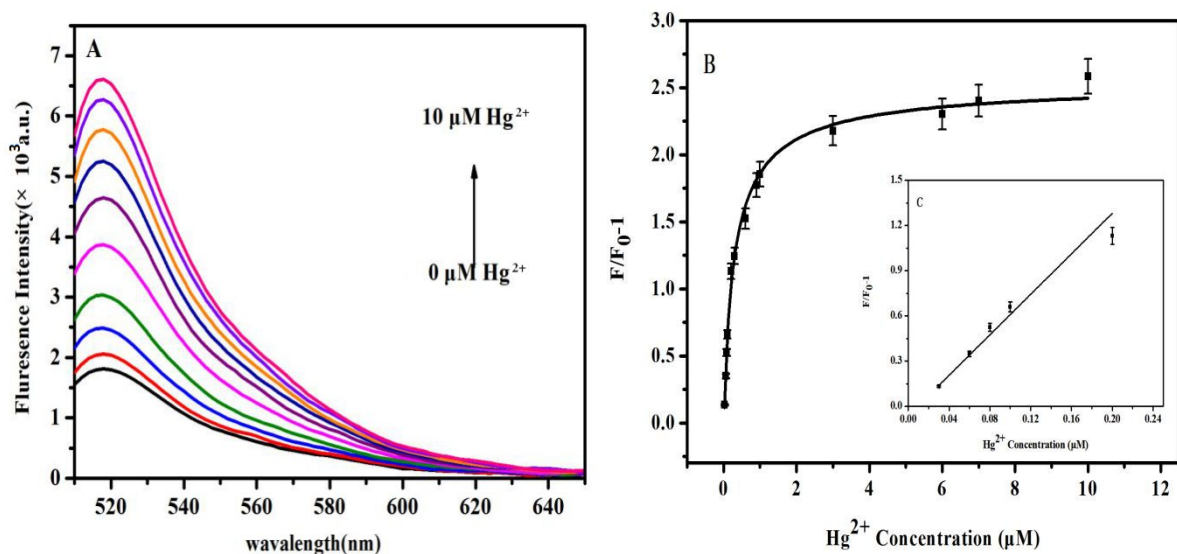


Fig.S3. (A) The fluorescence intensity of GO-ss DNA sensor after adding different concentrations of Hg^{2+} . (B) The value of $F/F_0 - 1$ after adding different concentrations of Hg^{2+} . F and F_0 were the fluorescence intensity of after adding Hg^{2+} , and before adding Hg^{2+} . Illustration was a linear relationship between low concentrations of Hg^{2+} and $F/F_0 - 1$. (C) The illustration showed a linear relationship between low concentrations of Hg^{2+} and $F/F_0 - 1$.

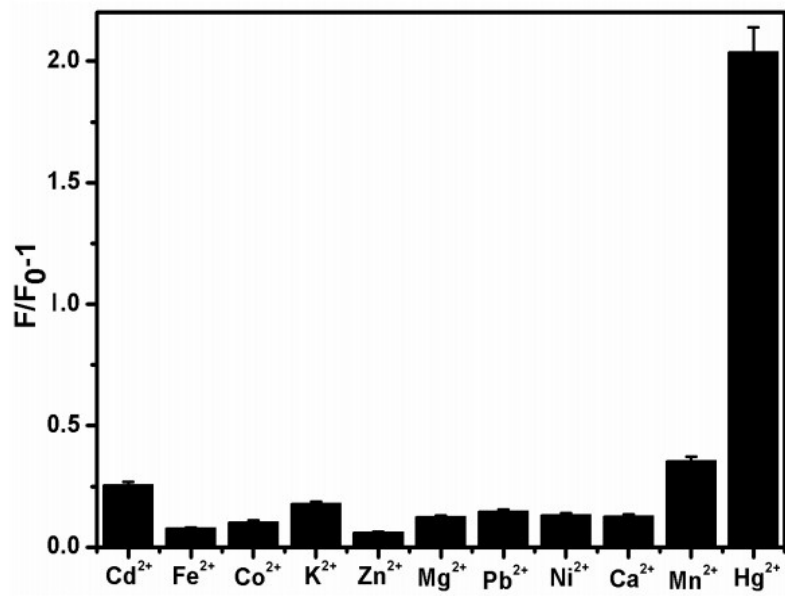


Fig.S4. Detection of metal ions using GO-ssDNA sensors