

### Elemental Supporting Materials

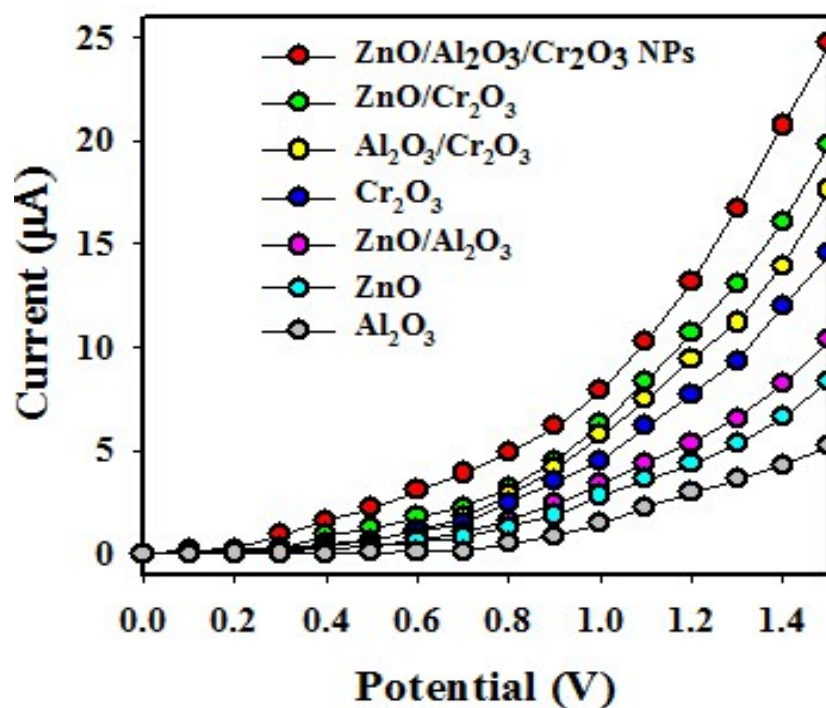


Fig. S1: Control experiment is performed based on different composition of fabricated GCE such as Al<sub>2</sub>O<sub>3</sub>, ZnO, Cr<sub>2</sub>O<sub>3</sub>, ZnO/Al<sub>2</sub>O<sub>3</sub>, Al<sub>2</sub>O<sub>3</sub>/Cr<sub>2</sub>O<sub>3</sub>, ZnO/Cr<sub>2</sub>O<sub>3</sub> and ZnO/Al<sub>2</sub>O<sub>3</sub>/Cr<sub>2</sub>O<sub>3</sub> nanoparticles.