

# Supplementary Materials

## A Double-Deck Structure of Reduced Graphene Oxide Modified Porous $\text{Ti}_3\text{C}_2\text{T}_x$ Electrode towards Ultrasensitive and Simultaneous Detection of Dopamine and Uric Acid

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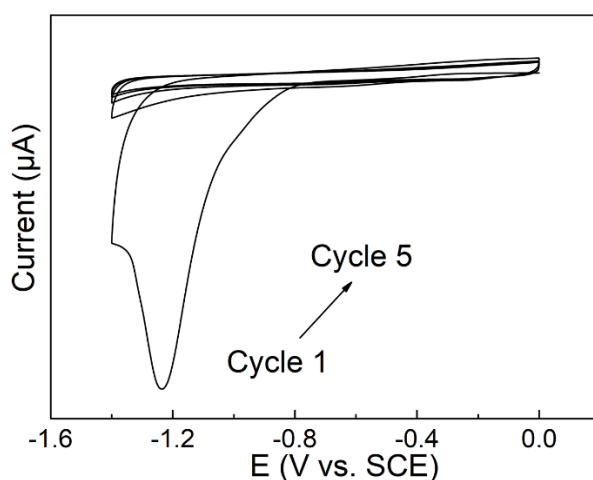
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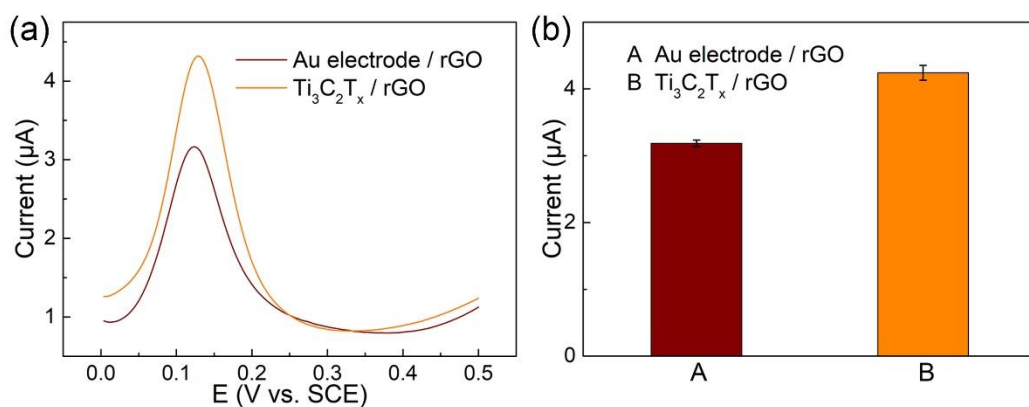
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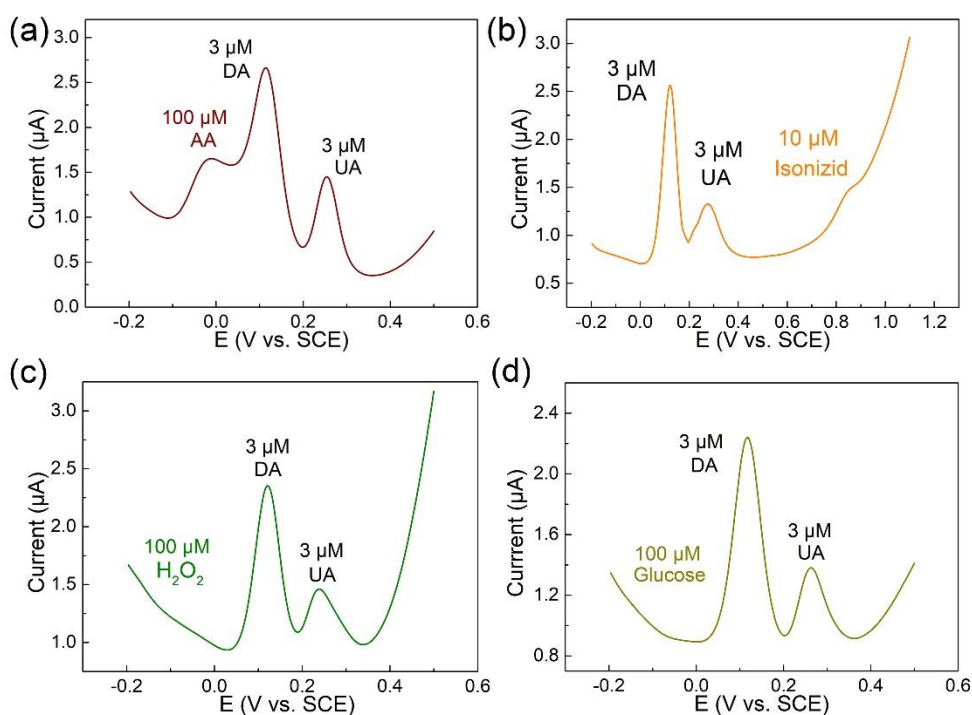
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**Figure S1.** CV curves of  $\text{Ti}_3\text{C}_2\text{T}_x/\text{rGO}$  electrode on electrochemical reduction of GO to rGO.



**Figure S2.** (a) Performance comparison of DPV curves on  $\text{Ti}_3\text{C}_2\text{T}_x/\text{rGO}$  and  $\text{Au}/\text{rGO}$  electrode with  $10\ \mu\text{M}$  DA in PBS. (b) The corresponding current value of (a).



**Figure S3.** The anti-interference of our electrode in the presence of  $100\ \mu\text{M}$  glucose,  $100\ \mu\text{M}$  ascorbic acid,  $100\ \mu\text{M}$   $\text{H}_2\text{O}_2$  and  $10\ \mu\text{M}$  isoniazid with PBS containing  $3\ \mu\text{M}$  DA and  $3\ \mu\text{M}$  UA.

**Table S1.** The fitting parameters of EIS for GCE,  $\text{Ti}_3\text{C}_2\text{T}_x$  and  $\text{Ti}_3\text{C}_2\text{T}_x/\text{rGO}$  electrode.

Electrode	$R_s\ (\Omega)$	$Q_{\text{coat}}\ (\text{F})$	$R_p\ (\Omega)$	$Q_{\text{sub}}\ (\text{F})$	$R_{\text{ct}}\ (\Omega)$
GCE	181.1	$1.49 \times 10^{-6}$	2052	$2.84 \times 10^{-3}$	1036.0
$\text{Ti}_3\text{C}_2\text{T}_x$	210.0	$1.68 \times 10^{-6}$	2209	$2.52 \times 10^{-3}$	628.8
$\text{Ti}_3\text{C}_2\text{T}_x/\text{rGO}$	221.4	$1.50 \times 10^{-4}$	596.4	$3.83 \times 10^{-3}$	369.6