Electronic Supplementary Material (ESI) for Dalton Transactions.
This journal is © The Royal Society of Chemistry 2022

A facile construction of Ag/$MoSe_2$ composite based non-enzymatic amperometric sensor for hydrogen peroxide

Ran Tian, Dong Li, Tao Zhou, Xue-Qiang Chu, Danhua Ge*, Xiaojun Chen*

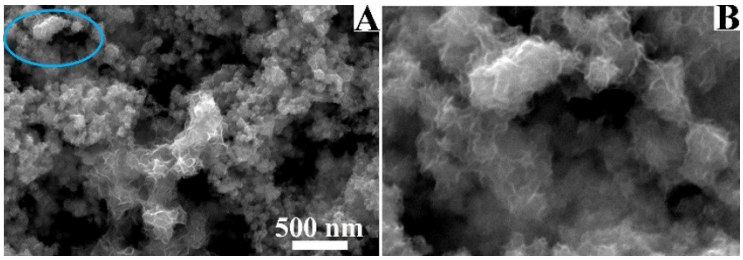

Fig. S1 (A) SEM image of $MoSe_2$. (B) Enlarged blue area in (A).

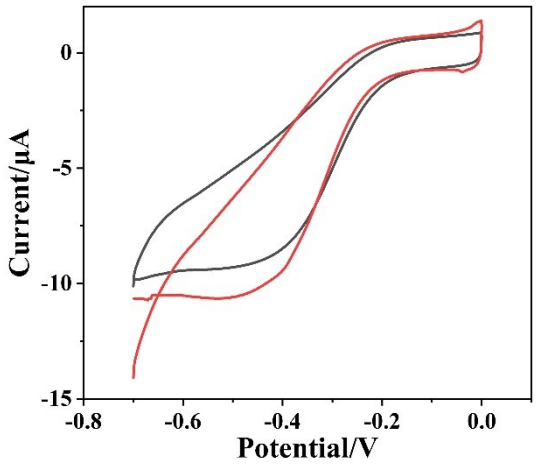

Fig. S2 CVs of Ag NPs modified ITO electrode in absence (black line) and presence (red line) of 1 mM H_2O_2.

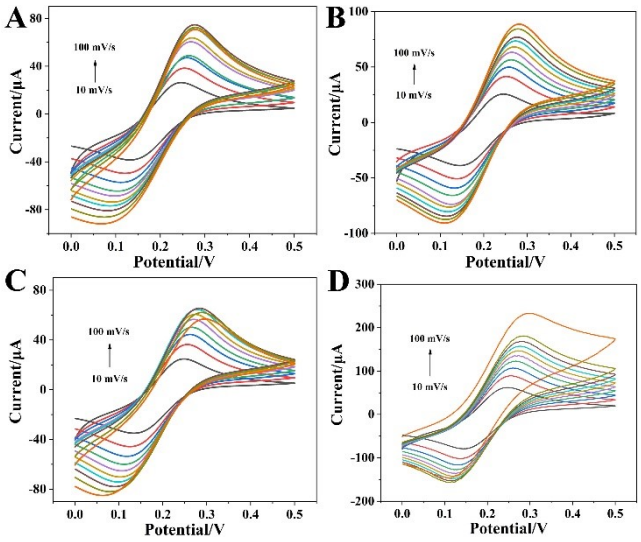

Fig. S3 CVs of (A) bare ITO, (B) $MoSe_2$, (C) $MoSe_2$-500 and (D) Ag/$MoSe_2$-500 modified ITO

electrodes in 0.1 M KCl solution containing 5 mM $K_3[Fe(CN)_6]$.

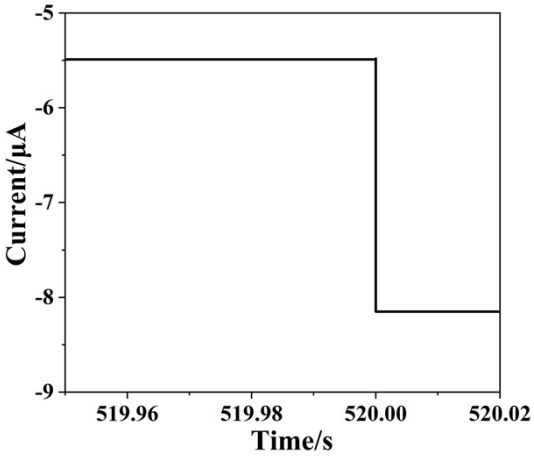

Fig. S4 The response time of Ag/$MoSe_2$-500/ITO.

Table S1. The recovery of H_2O_2 by standard addition method in milk and orange juice.

Sample	Added concentration/mM	Measured concentration/mM	Recovery/%
Milk	0.04	0.04	100.0
	0.46	0.46	100.0
	0.66	0.64	97.0
Orange juice	0.26	0.25	96.2
	0.46	0.51	110.9
	0.66	0.63	95.5