

## Supporting Information

### **Sn species modified mesoporous zeolite TS-1 with oxygen vacancy for enzyme-free electrochemical H<sub>2</sub>O<sub>2</sub> detecting**

Fengfeng Xue,<sup>1,2\*</sup> Ruomeng Qin,<sup>2</sup> Runwei Zhu,<sup>2</sup> Xiaoxia Zhou<sup>3</sup>

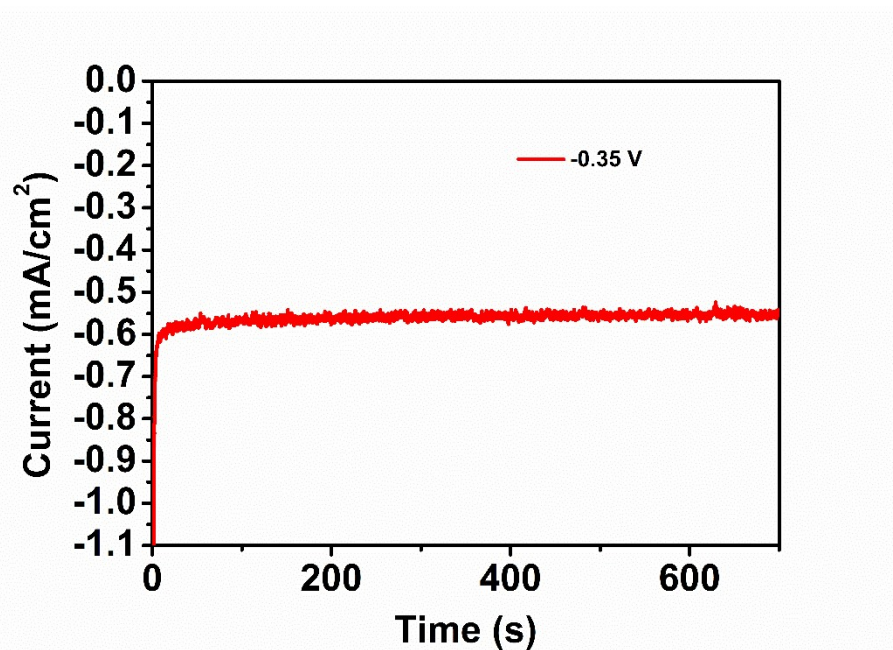
1 Shanghai University of Medicine and Health Sciences Affiliated Zhoupu Hospital, Shanghai 201318, China

2 School of Pharmacy, Shanghai University of Medicine and Health Sciences, Shanghai 201318, China

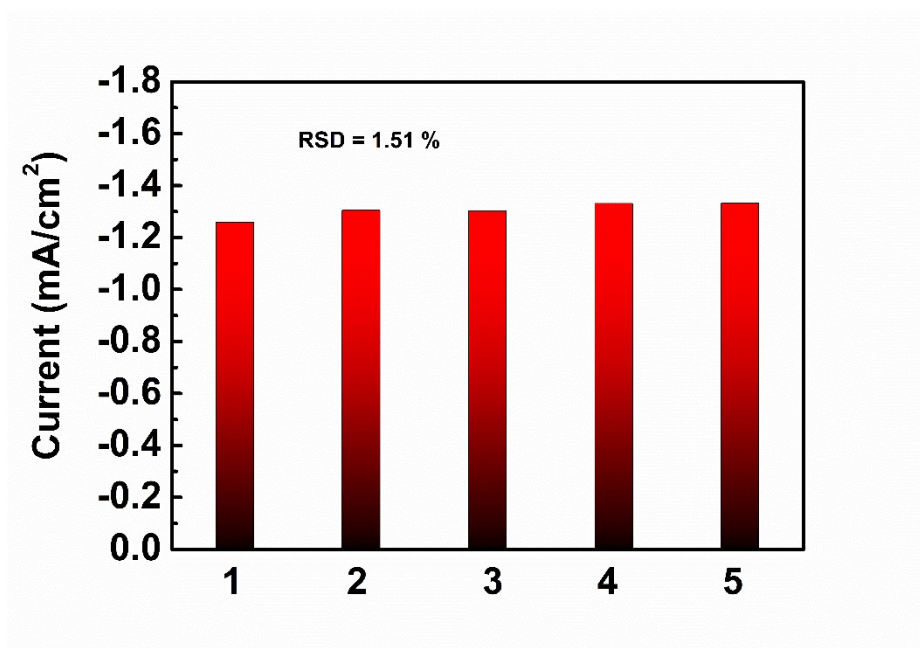
3 State Key Laboratory of High Performance Ceramics and Superfine Microstructure, Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai 200050, China

**Table S1.** Composition and textural properties of the zeolite TS-1 and Sn-TS-1.

Samples	$Si/Ti$ [atom/atom]	$V_{total}$ [cm <sup>3</sup> g <sup>-1</sup> ]	$S_{micro}$ [m <sup>2</sup> g <sup>-1</sup> ]	$S_{meso}$ [m <sup>2</sup> g <sup>-1</sup> ]	$S_{total}$ [m <sup>2</sup> g <sup>-1</sup> ]	$d_{meso}$ [nm]
TS-1	23	0.12	201	53	254	30-80
Sn-TS-1	28	0.16	130	61	191	1.7, 30-120



**Figure S1.** The i-t curves of Sn-TS-1 in 0.1 M PBS with 1 mM H<sub>2</sub>O<sub>2</sub> at -0.35 V.



**Figure S2.** The reproducibility of 5 different Sn-TS-1 electrodes in 0.1 M PBS with 1 mM H<sub>2</sub>O<sub>2</sub>.