

Electronic Supplementary Information

Titanium silicalite-1 zeolite microparticles for enzymeless H_2O_2 detection

Sen Liu,^a Jingqi Tian,^{ab} Junfeng Zhai,^a Lei Wang,^a Wenbo Lu,^a and Xuping Sun^{*a}

^aState Key Lab of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, Jilin, China

^bGraduate School of the Chinese Academy of Sciences, Beijing 100039, China

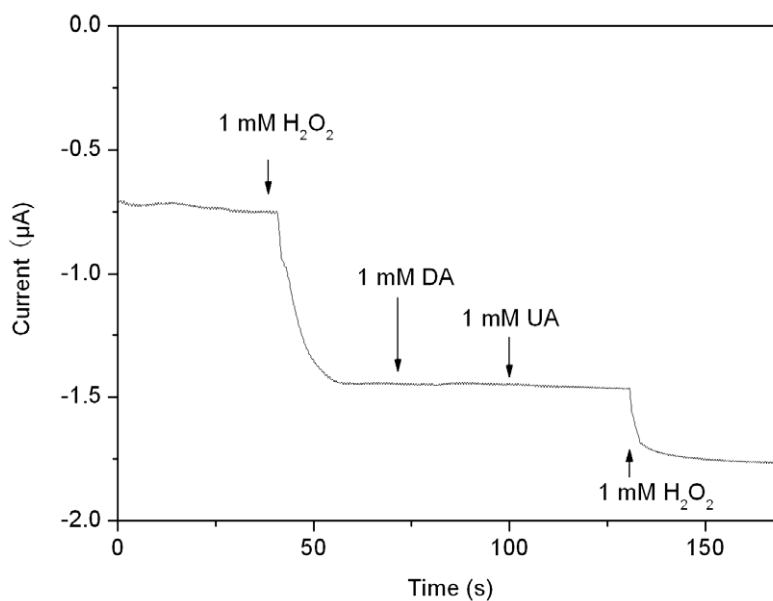


Fig. S1 The current responses of TSZMs/GCE to the sequential additions of 1.0 mM H_2O_2 , 1.0 mM DA and 1.0 mM UA.

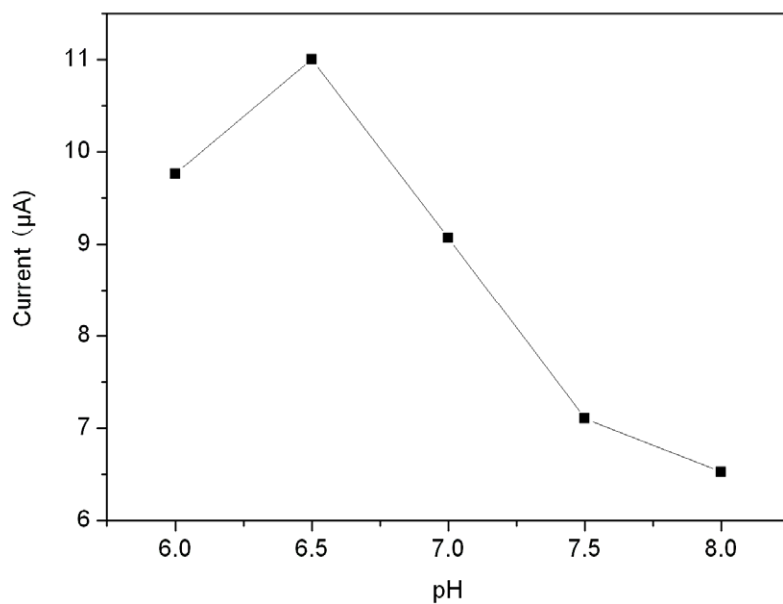


Fig. S2 The amperometric responses of TSZMs/GCE in 0.2 M PBS with different pHs from 6.0 to 8.0 in the presence of 1.0 mM H₂O₂.

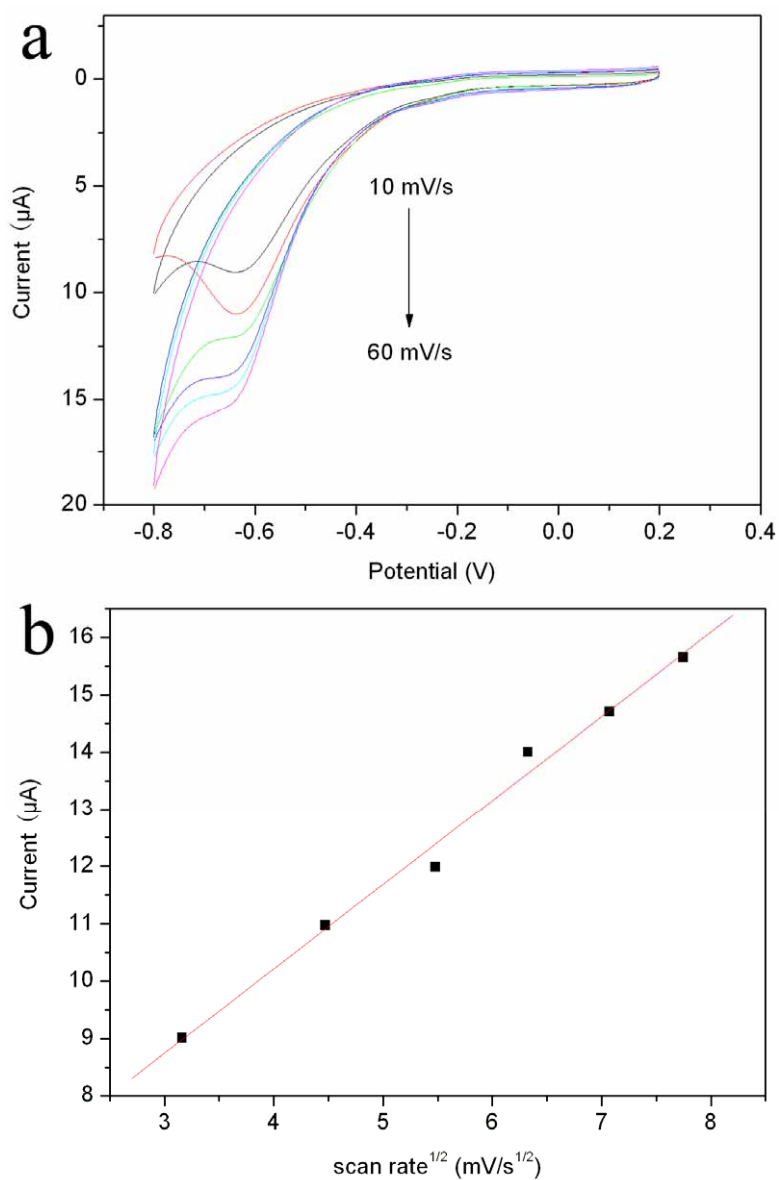


Fig. S3 (a) CVs for TSZMs/GCE in 1.0 mM H₂O₂ at scan rates of 10 to 60 mV/s. (b) the corresponding plot of current versus the square root of scan rate.