Supplementary Materials

Photoelectrochemical Biosensor Based on 1D In_2O_3 Tube Decorated with 2D $ZnIn_2S_4$ Nanosheets for Sensitive PSA Detection

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1. Results and Discussions

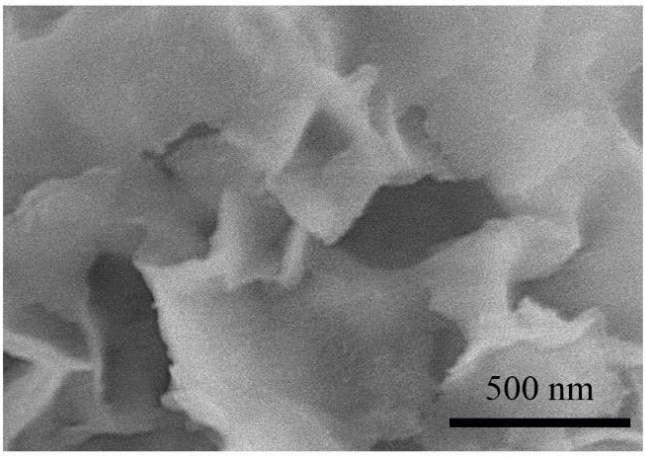


Figure S1. Enlarged SEM image of $ZnIn_2S_4$.

Table S1. Key data of EIS measurement in this study. In this model, electron-transfer resistance is the main factor, thus the solution resistance value is artificially zeroed to better demonstrate the change of electron-transfer resistance.

Substrate	R_{et} (Ω)	Warburg impedance
FTO	62.3	1.245E-005
FTO/In_2O_3-$ZnIn_2S_4$	252.4	1.999E-005
FTO/In_2O_3-$ZnIn_2S_4$/aptamer	633.3	2.589E-005
FTO/In_2O_3-$ZnIn_2S_4$/aptamer/BSA	1154.9	3.478E-005