

Supplementary Information

# In-Situ Piezoelectric Effect for Augmenting Performance of Self-Powered ZnO-Based Photodetector

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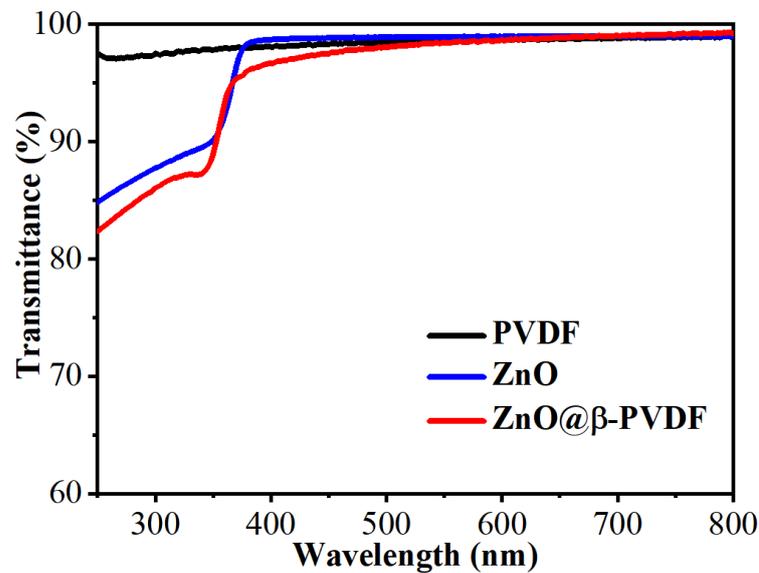


Figure S1. The transmittance spectra of 30 nm-thick  $\beta$ -PVDF, ZnO, and ZnO@ $\beta$ -PVDF samples.

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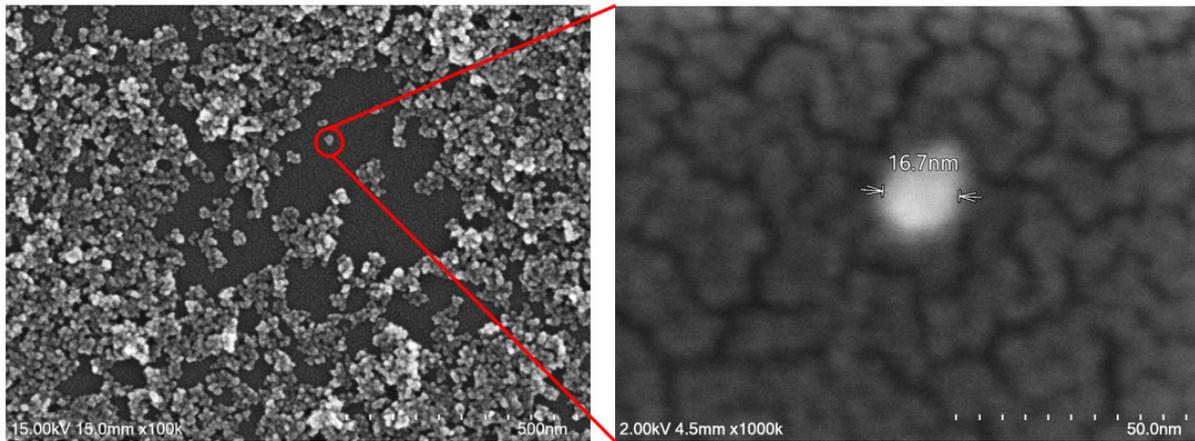
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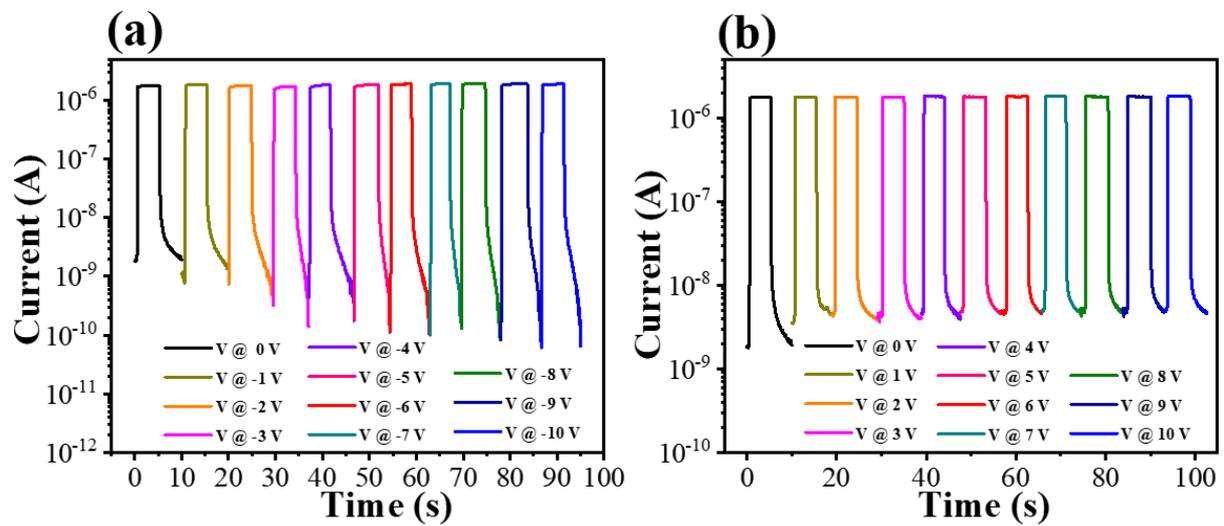
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**Figure S2.** SEM image of ZnO nanoparticles loaded on a glass substrate (on the left) and an individual ZnO particle (on the right).



**Figure S3.** Logarithmic I-t curves of the photodetector under (a) reverse bias and (b) forward bias.