

Supporting information

Realization of self-powered ZnO MSM UV photodetector with high responsivity using asymmetric pair of Au electrodes

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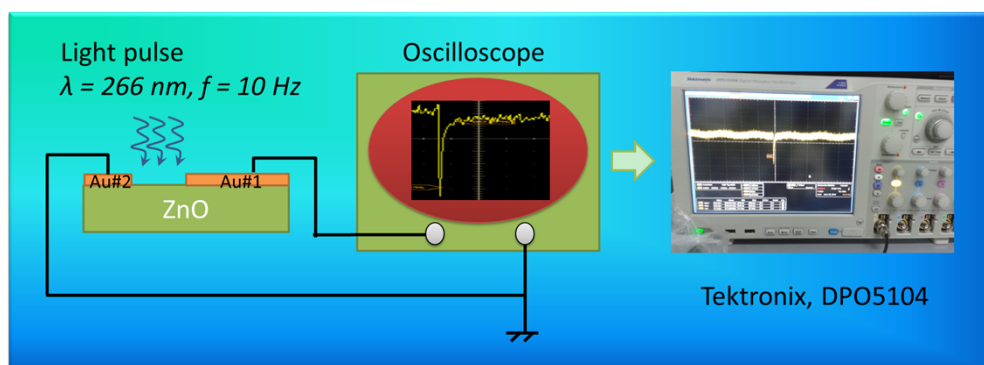


Fig. S1 Schematic experimental setup for the measurement of the temporal photoresponse.

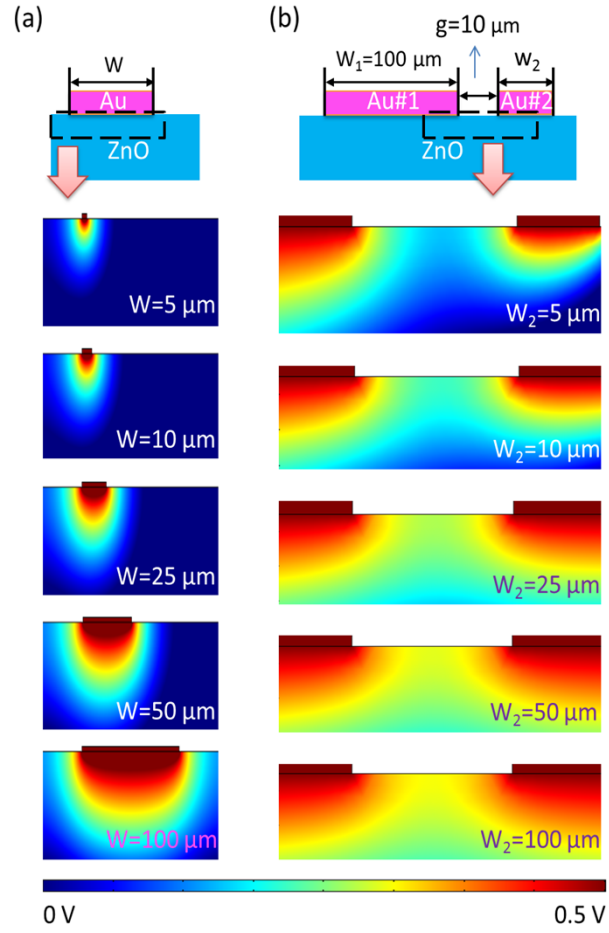


Fig. S2 Simulation of the potential distribution in ZnO film. (a) $w=5-100 \mu\text{m}$, (b)

$w_1=100 \mu\text{m}$, $w_2=5-100 \mu\text{m}$, $g=10 \mu\text{m}$.

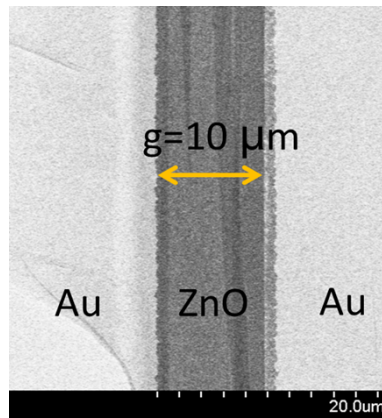


Fig. S3 SEM image of the Au#1-ZnO-Au#2 self-powered detector ($w_1=w_2=100\text{ }\mu\text{m}$, $g=10\text{ }\mu\text{m}$).