

## Electronic Supplementary Information

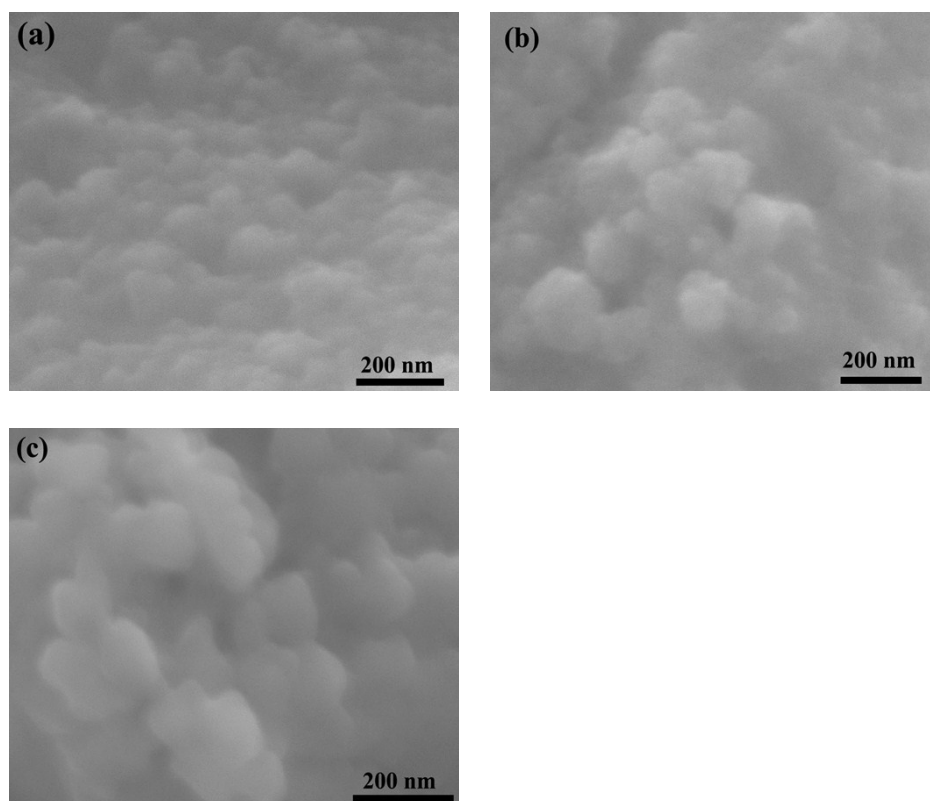
### Optimized Zn<sub>2</sub>SnO<sub>4</sub> nanoparticles with enhanced performance of Photodetectors and Photocatalysts †

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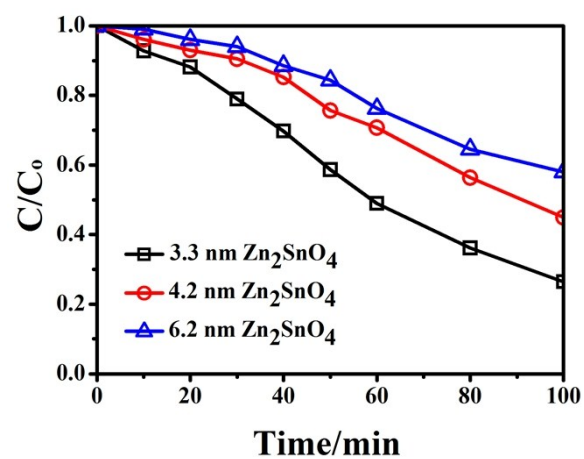
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**Fig. S1.** FE-SEM images of Zn<sub>2</sub>SnO<sub>4</sub> nanoparticles with different sizes.



**Fig. S2** Photocatalytic activities of  $Zn_2SnO_4$  nanoparticles with different sizes for photodegradation of RhB molecules.