

# Construction of photoelectrochemical DNA biosensors based on $\text{TiO}_2$ @carbon dots@black phosphorous quantum dots

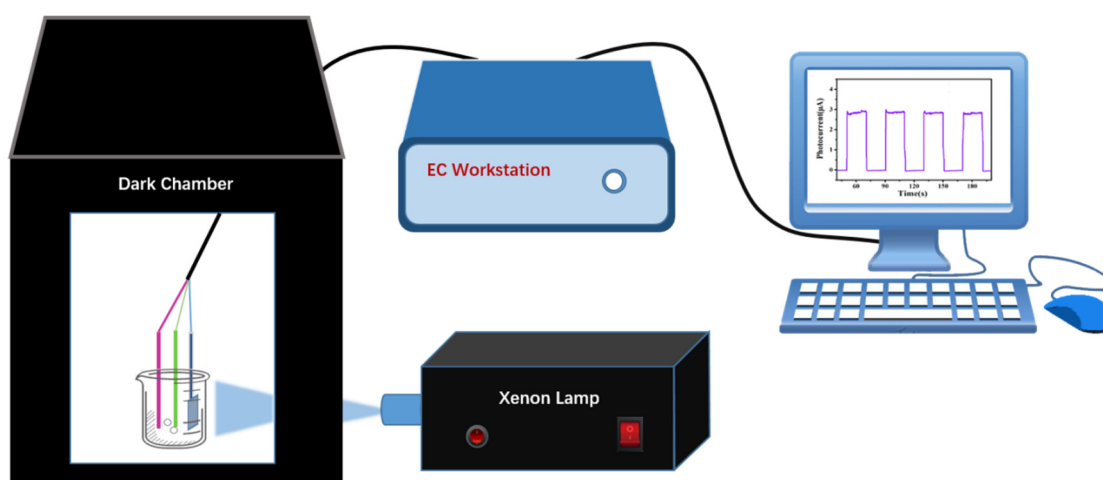
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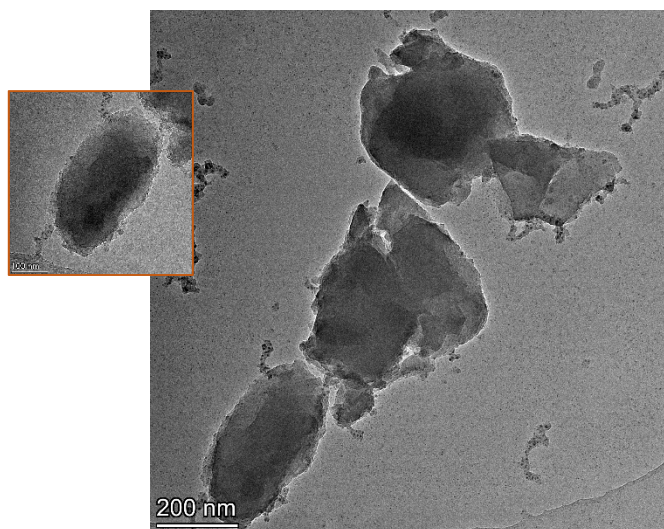
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**Figure S1.** Schematic illustration of the operation system for the PEC detection.



**Figure S2.** TEM image of the  $\text{TiO}_2$ @CDs@BPQDs nanocomposites.