

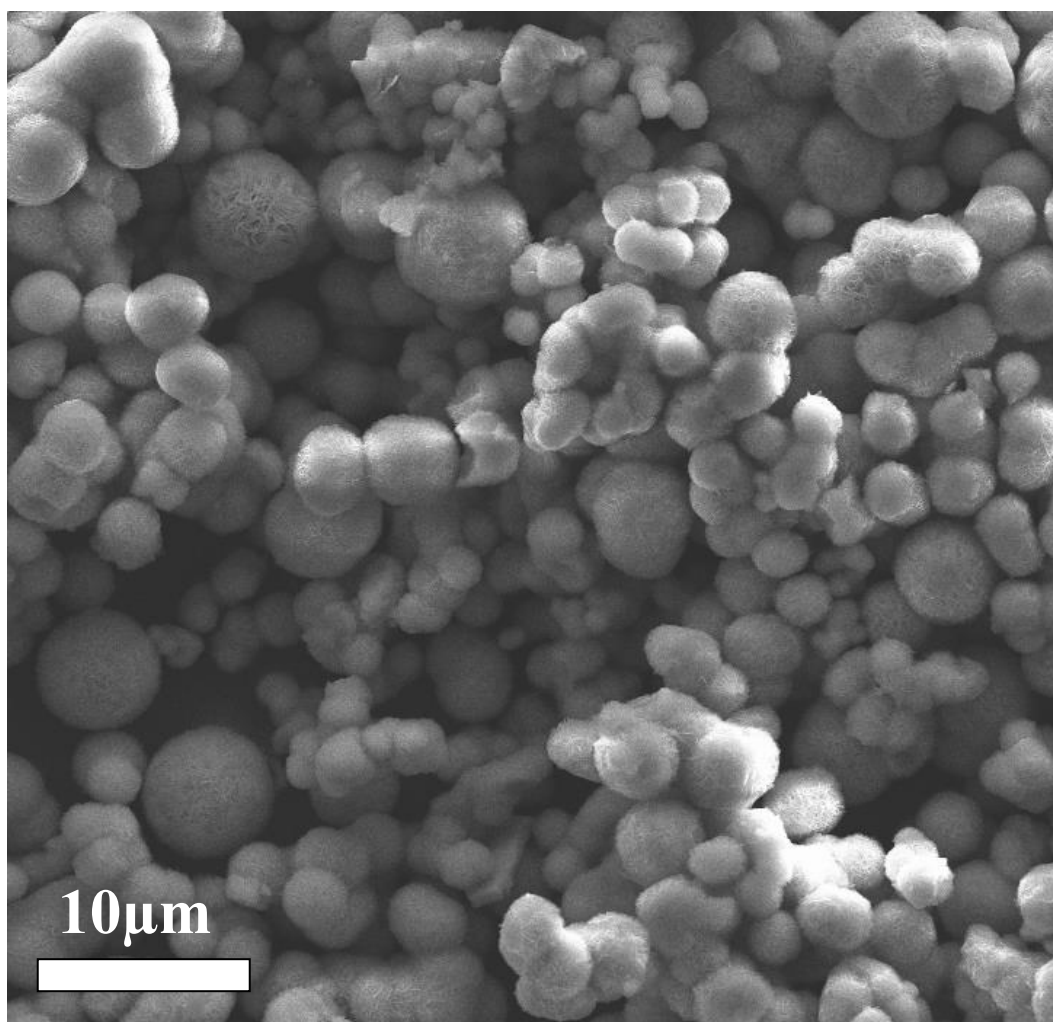
# Supporting Information

## **Ternary 3D Architectures of CdS QDs/Graphene/ZnIn<sub>2</sub>S<sub>4</sub> Heterostructures for Efficient Photocatalytic H<sub>2</sub> Production**

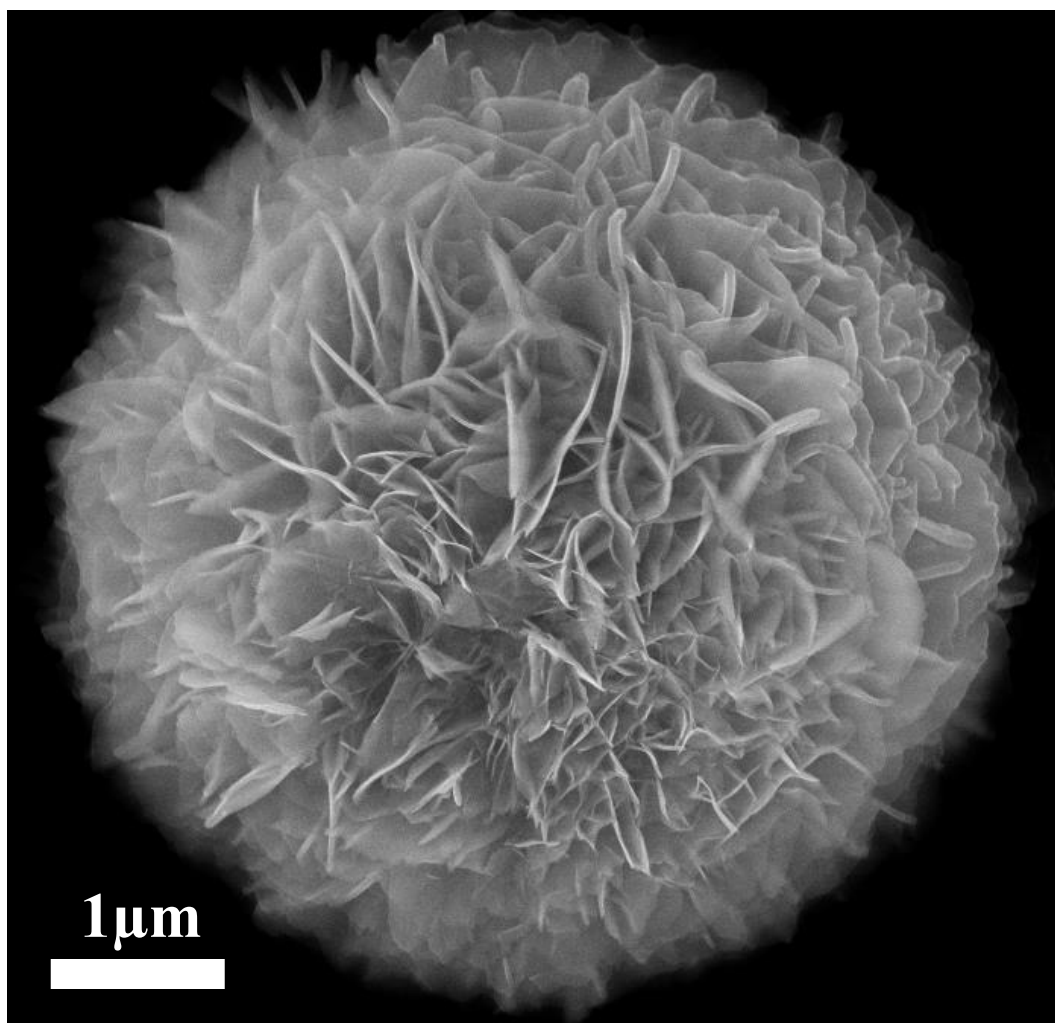
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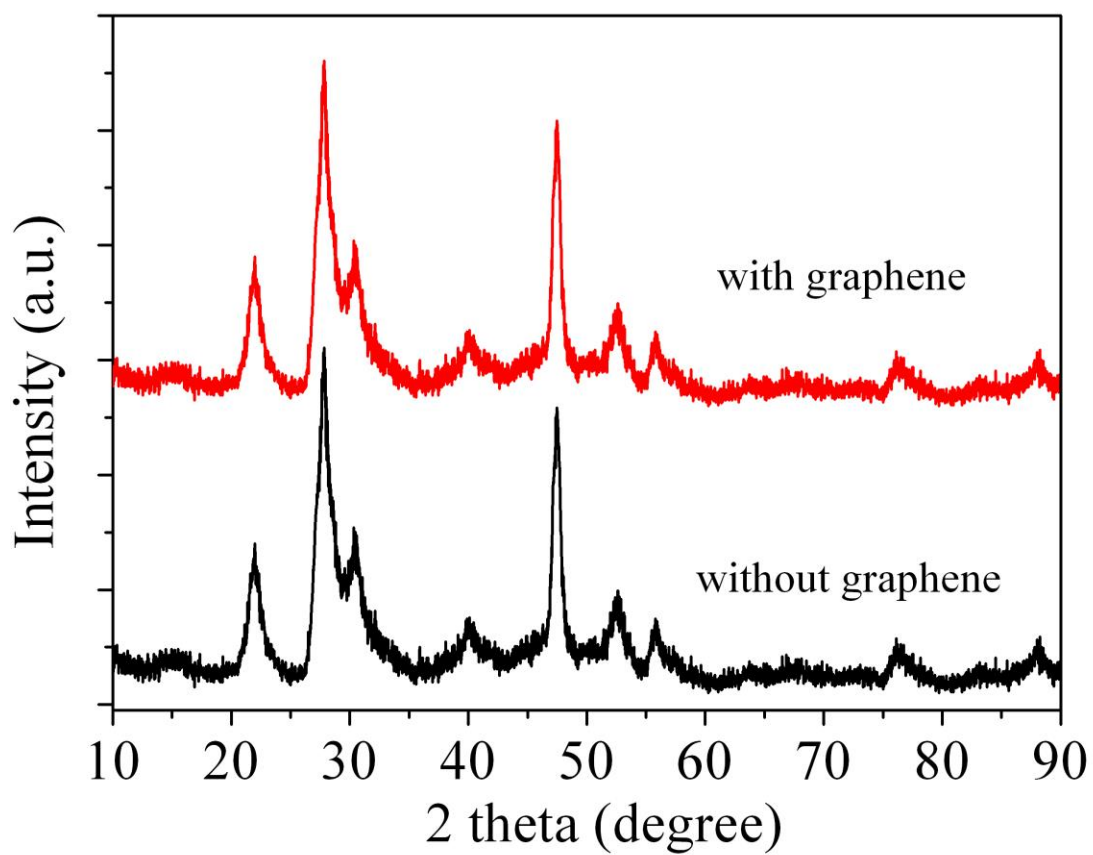
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**Fig. S1. The SEM image from a surface area of the 3mol% CdS QDs decorated  $\text{ZnIn}_2\text{S}_4$  heterostructures.**



**Fig. S2. The SEM image from a surface area of the 3mol% CdS QDs decorated  $\text{ZnIn}_2\text{S}_4$  heterostructure.**



**Fig. S3.** The XRD patterns of the as-prepared 3wt% CdS QDs decorated  $\text{ZnIn}_2\text{S}_4$  composites coupled with and without 1wt% graphene.