

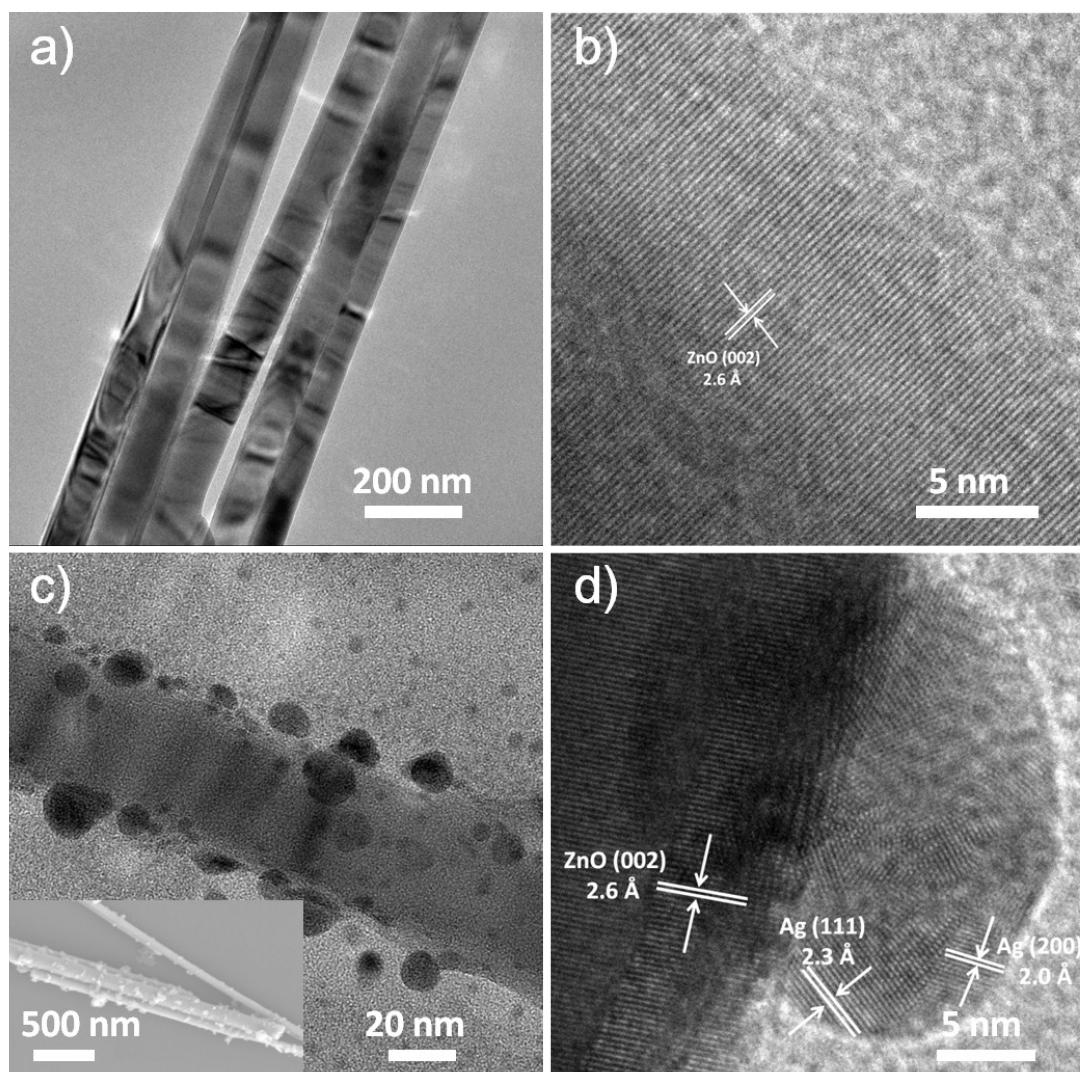
**Supporting information for**  
**Rational Design of a Novel Quaternary ZnO@ZnS/Ag@Ag<sub>2</sub>S**  
**Nanojunction System for Enhanced Photocatalytic H<sub>2</sub> Production**

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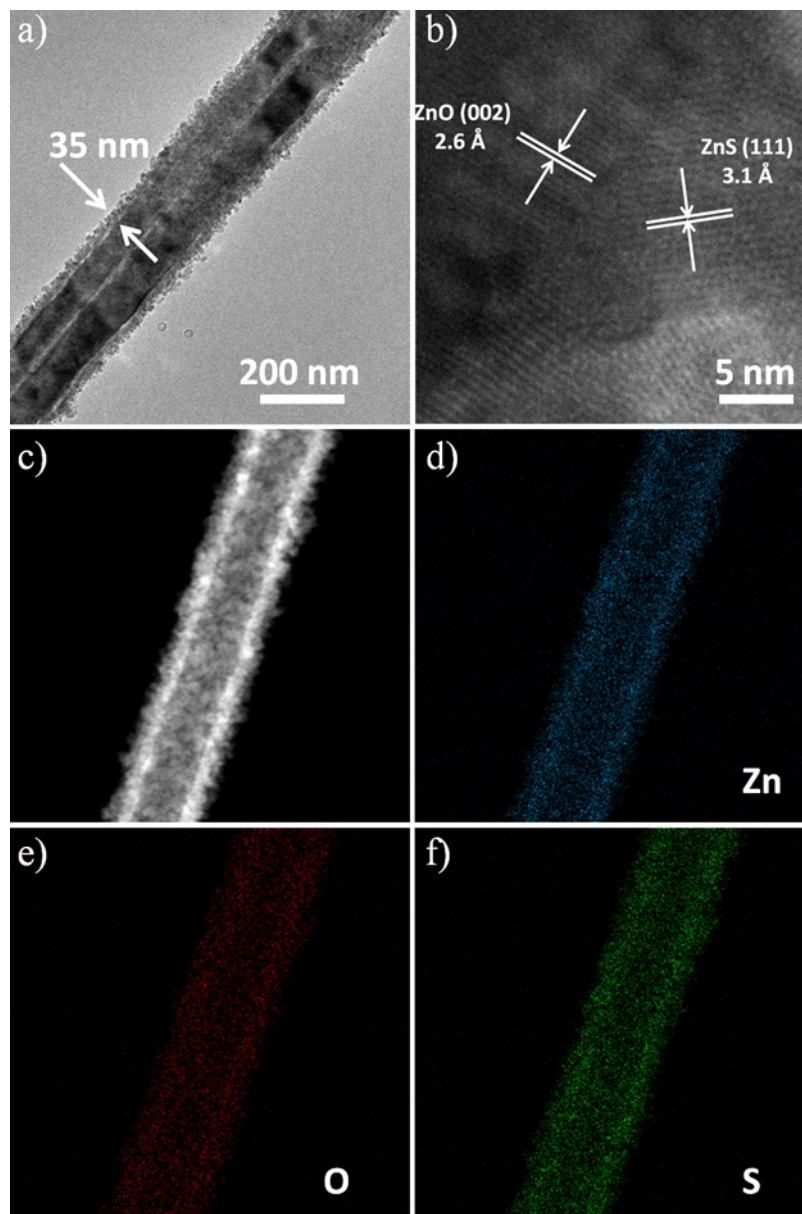
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**Figure S1.** (a) TEM and (b) HRTEM images of ZnO nanowires. (c) TEM and (d) HRTEM images of ZnO/Ag.



**Figure S2.** (a) TEM, (b) HRTEM, (c) HAADF-STEM, and the element mapping images of (d) Zn, (e) O and (f) S of ZnO/ZnS.