

**Electronic Supplementary Information for**

**An anion-exchange strategy for 3D hierarchical (BiO)<sub>2</sub>CO<sub>3</sub>/amorphous Bi<sub>2</sub>S<sub>3</sub>  
heterostructures with increased solar absorption and enhanced visible light  
photocatalysis**

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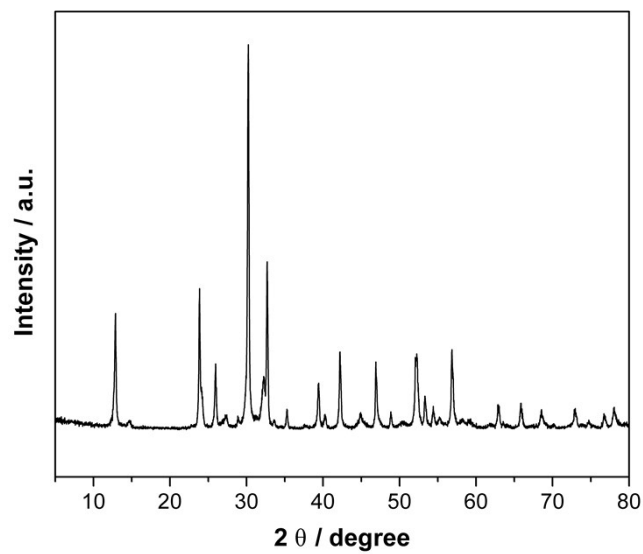
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**Fig. S1** XRD of the composites sample by hydrothermal treatment of the anion-exchange process.