

**Phase Transformation and Enhanced Photocatalytic Activity of S-doped
Ag₂O/TiO₂ Heterostructured Nanobelts**

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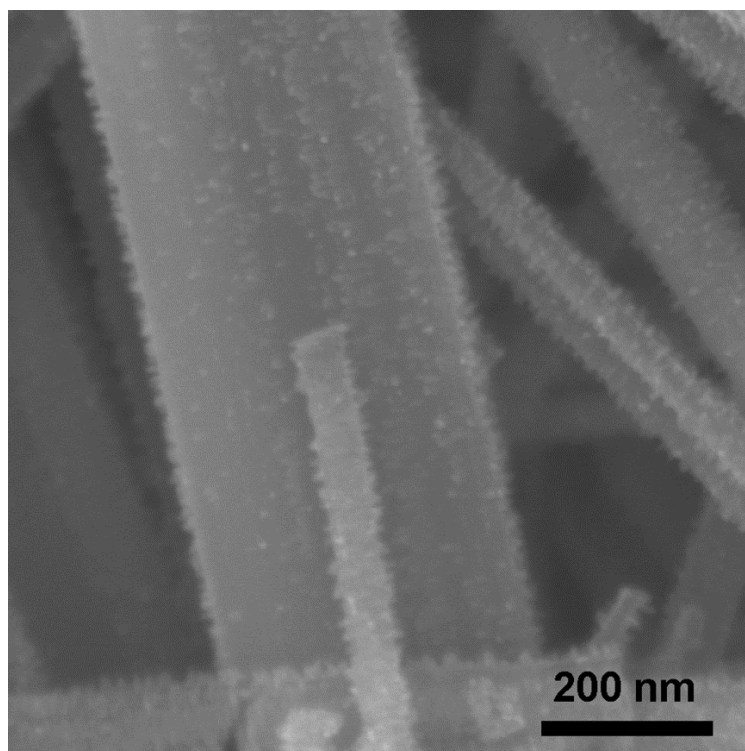


Figure S1 SEM image of acid-corroded TiO₂ nanobelts.

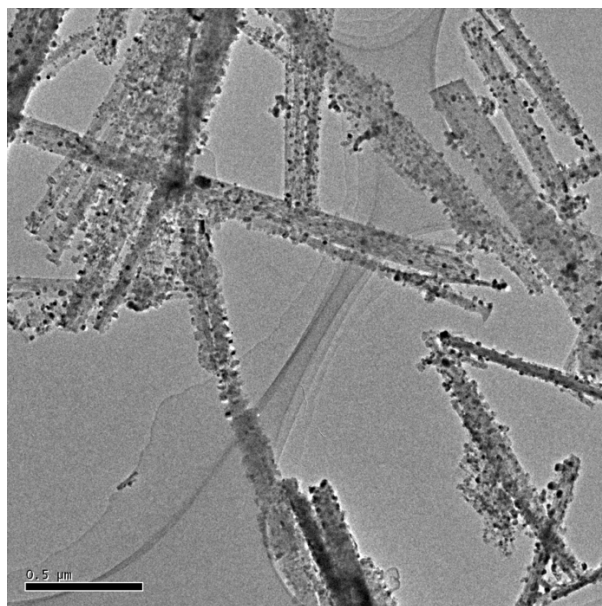


Figure S2 TEM image of Ag₂S₂O₇/TiO₂ (S3) nanobelt heterostructures.

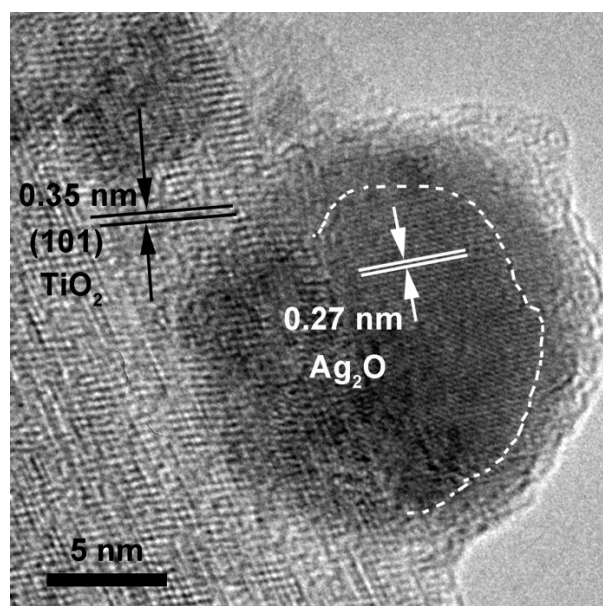


Figure S3. HRTEM image of $\text{Ag}_2\text{O}/\text{Ag}_2\text{S}_2\text{O}_7/\text{TiO}_2$ (S2) nanobelt heterostructure.

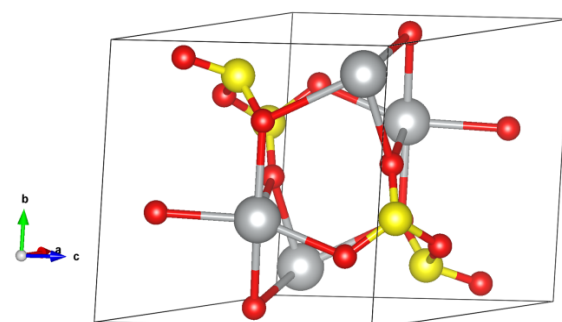


Figure S4. Atomic structure of the unit cell of $\text{Ag}_2\text{S}_2\text{O}_7$. Silver, sulfur and oxygen atoms are colored gray, yellow and red, respectively.

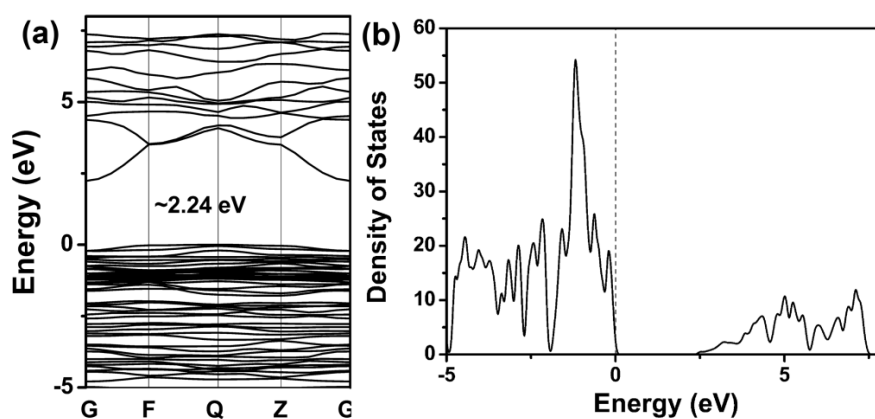


Figure S5. Calculated band structure (a) and electronic density of states (b) for $\text{Ag}_2\text{S}_2\text{O}_7$.