

Supporting Information for

Decipher the photocatalytic hydrogen generation process for
Fresnoite $\text{Ba}_2\text{TiGe}_2\text{O}_8$ by electronic structure and bond analyses

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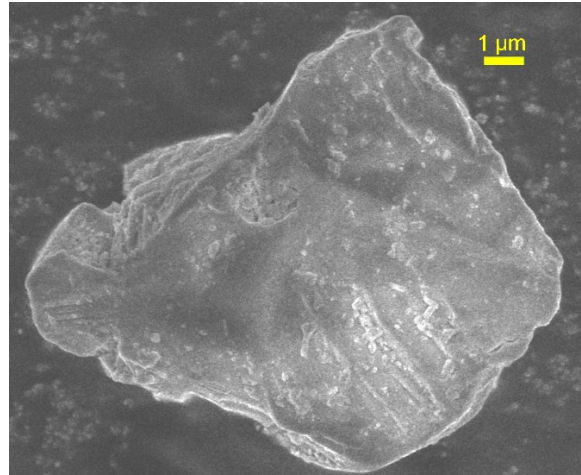


Fig. S1. SEM image for $\text{Ba}_2\text{TiGe}_2\text{O}_8$.

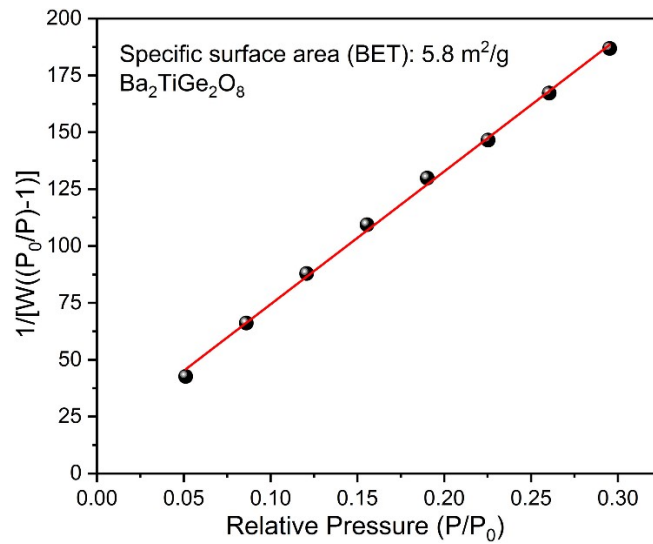


Fig. S2. Specific surface area for $\text{Ba}_2\text{TiGe}_2\text{O}_8$ using BET method.

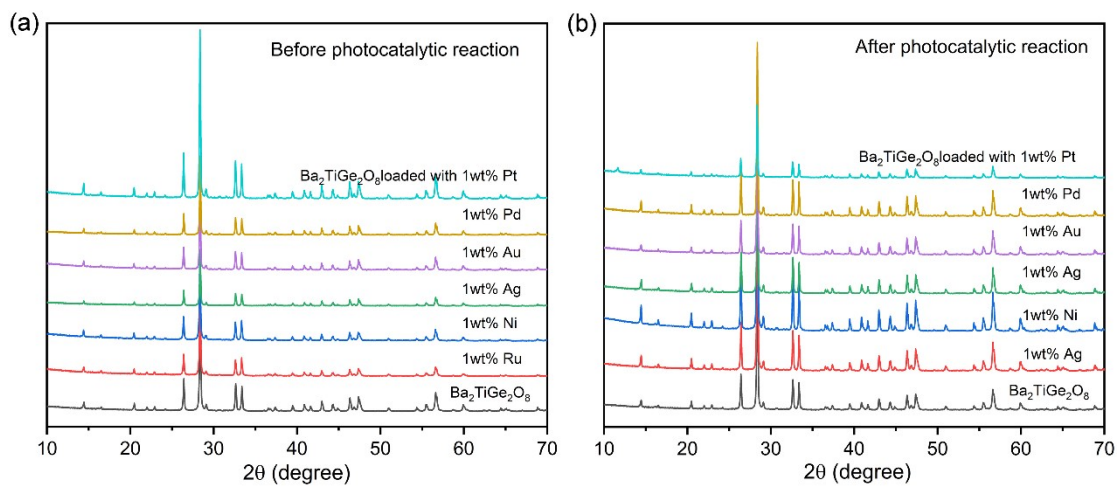


Fig. S3. Powder XRD patterns for $\text{Ba}_2\text{TiGe}_2\text{O}_8$ (including those loaded with cocatalysts)

before and after the photocatalytic reactions.