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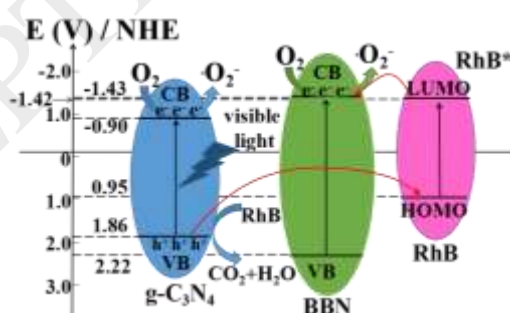
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Graphical abstract

$[\text{Bi}_6\text{O}_6(\text{OH})_2](\text{NO}_3)_4 \cdot 2\text{H}_2\text{O}/\text{g-C}_3\text{N}_4$ with visible light photoreactivity was firstly prepared via calcining the mixture of $\text{g-C}_3\text{N}_4$ and $\text{Bi}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$.



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