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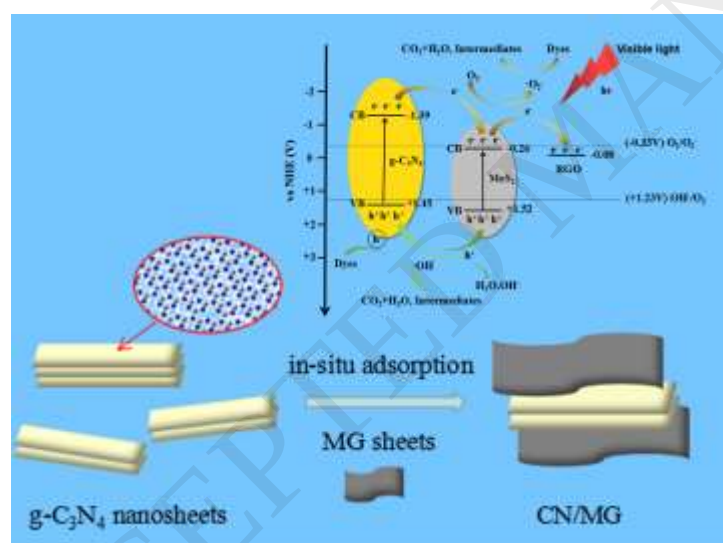
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Constructing 2D Graphitic carbon nitride Nanosheets /Layered MoS₂/Graphene Ternary Nanojunction with Enhanced Photocatalytic Activity

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Graphical Abstract



Highlights

1. 2D heterostructure photocatalyst consisting of g-C₃N₄ nanosheets/layered MoS₂/graphene was constructed by an in-situ adsorption method.
2. MoS₂/graphene cocatalyst played a key role in ternary photocatalyst on account of the 2D layered structure with well-contacted interfaces and facilitate the electron transportation.
3. g-C₃N₄-5%MoS₂/graphene exhibited a optimal photodegradation rate of Rh B reached 95% under 20 min visible light irradiation which is almost 4.8 times of pure

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