Title: Graphene Oxide Enhanced Amine-Functionalized Titanium Metal Organic Framework for Visible-Light-Driven Photocatalytic Oxidation of Gaseous Pollutants

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Graphene Oxide Enhanced Amine-Functionalized Titanium Metal Organic Framework for Visible-Light-Driven Photocatalytic Oxidation of Gaseous Pollutants

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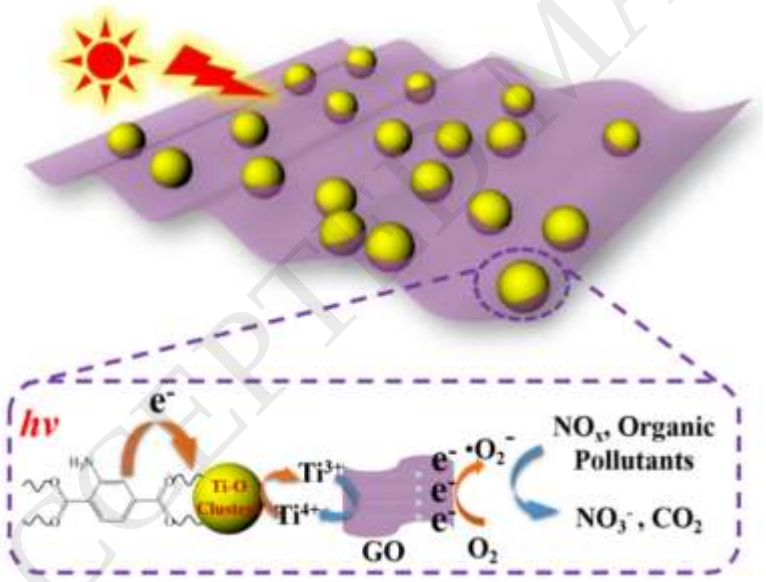
Graphical abstract



Graphene oxide (GO) enhanced amine-functionalized titanium metal organic framework (NH2-MIL-125(Ti)) was fabricated via a facile microwave solvothermal process. Benefiting from the strong interaction and high electronic conductivity of GO, the as-obtained hybrid system was proved highly efficient for photocatalytic oxidation of gaseous pollutants (NOx) and acetaldehyde with long durability, under visible light (λ > 420 nm) irradiation.