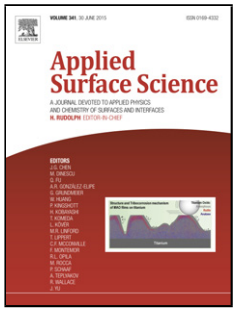

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Highly Efficient Dual Cocatalyst-Modified TiO_2 Photocatalyst: rGO as Electron-Transfer Mediator and MoS_x as H_2-Evolution Active Site

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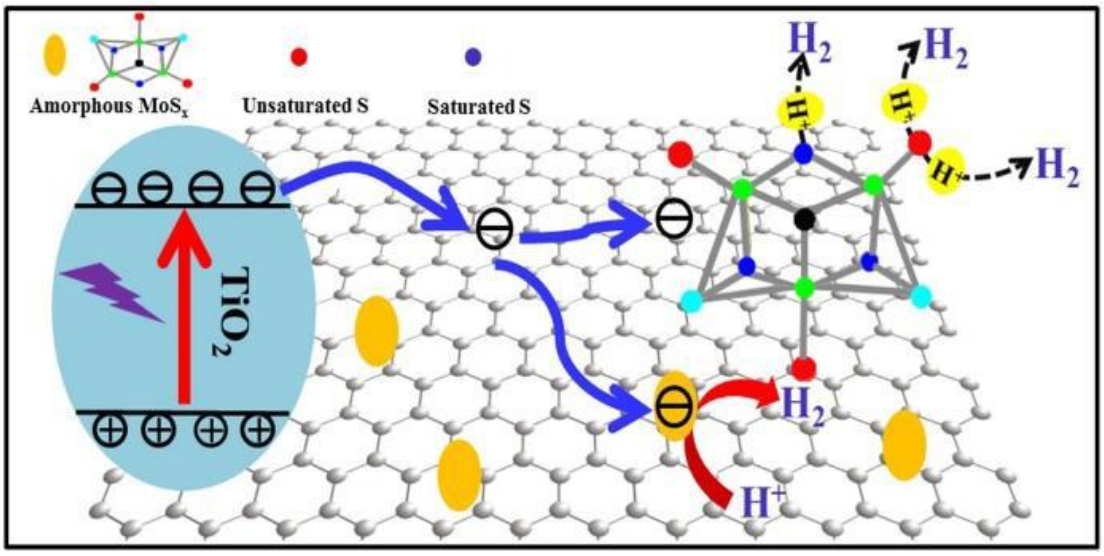
Graphical abstract



Highlights

- MoS_x-rGO/TiO_2 was synthesized by a two-step photocatalytic reduction approach.
- MoS_x-rGO/TiO_2 exhibits higher H_2-evolution rate than TiO_2, rGO/TiO_2 and