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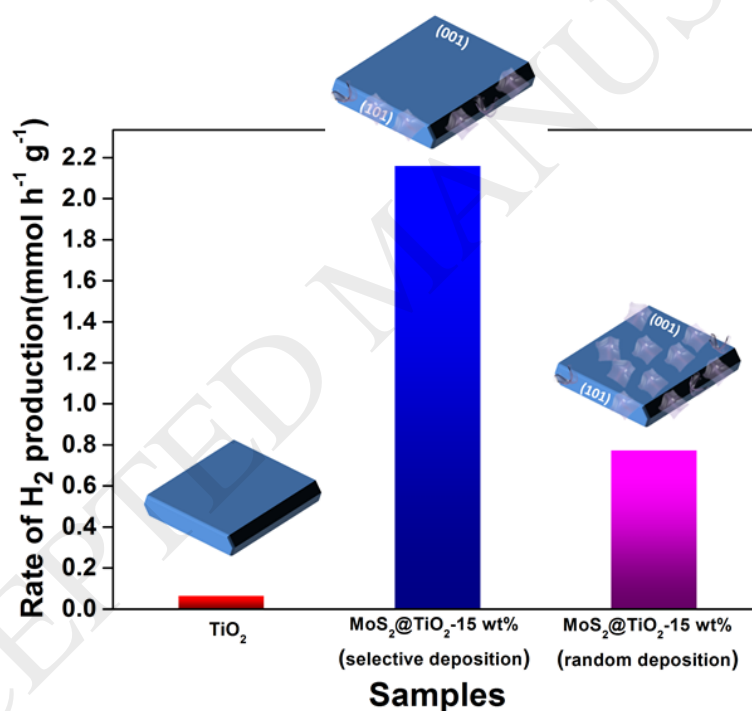
**The selective deposition of MoS<sub>2</sub> nanosheets onto (101) facets of TiO<sub>2</sub> nanosheets with exposed (001) facets and their enhanced photocatalytic H<sub>2</sub> production**

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**Graphical Abstract**



**Highlights**

- Anatase TiO<sub>2</sub> nanosheets with exposed (001) facets.
- MoS<sub>2</sub> nanosheets selectively deposited on (101) facets of TiO<sub>2</sub> nanosheets.
- The prepared MoS<sub>2</sub>@TiO<sub>2</sub> composite (selective deposition) exhibited enhanced H<sub>2</sub> production activity.

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