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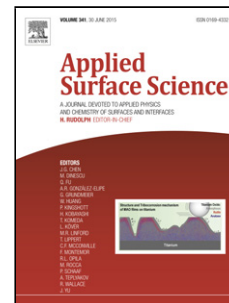
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Synthesis and photocatalytic activity of mesoporous - (001) facets TiO₂ single crystals

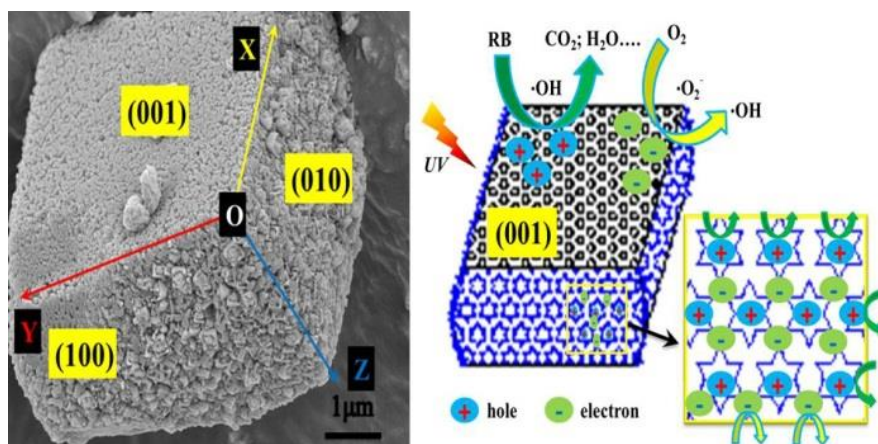
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Graphical Abstract



Highlights

- 1 The (001) facets of TiO₂ single crystals with mesoporous structure
- 2 The (010) and (100) facets of TiO₂ single crystals were covered by the flower-shaped TiO₂ crystals
- 3 This special structure could promote charge separation and provide more active sites, which will lead to a substantial increase in photocatalytic activity.

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