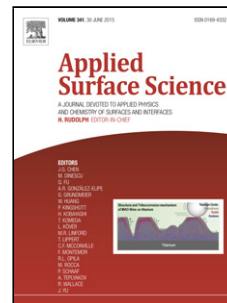


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Title: In-situ fabrication of a novel Z-scheme Bi_2WO_6 quantum dots/g- C_3N_4 ultrathin nanosheets heterostructures with improved photocatalytic activity

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Highlights

- We designed and fabricated a novel Bi_2WO_6 QDs/g- C_3N_4 heterojunction structure.
- Novel Bi_2WO_6 QDs/g- C_3N_4 catalysts were constructed by one-pot hydrothermal route.
- The catalysts show highly-efficient solar light catalytic activity.
- Z-scheme mechanism was proposed to explain the enhanced catalytic activity.

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