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Synthesis and characterization of ZnO nanorice decorated TiO_2 nanotubes for enhanced photocatalytic activity

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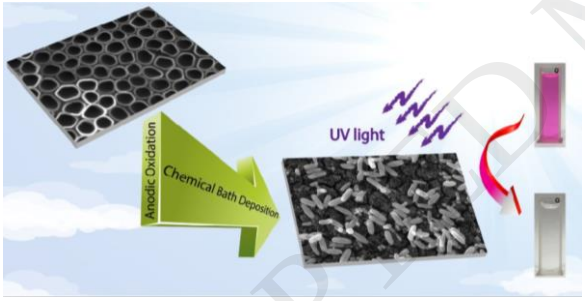
Graphical abstract



Highlights

- Rice-shaped ZnO nanoparticle was firstly synthesized by chemical bath deposition.
- Highly oriented TiO_2 nanotubes were synthesized via anodic oxidation method.
- ZnO nanorice were decorated on to TNTs by chemical bath deposition.
- Photocatalytic performance was signigificantly improved by synergetic effect.

Abstract