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# Hydrothermal synthesis of molybdenum trioxide, characterization and photocatalytic activity

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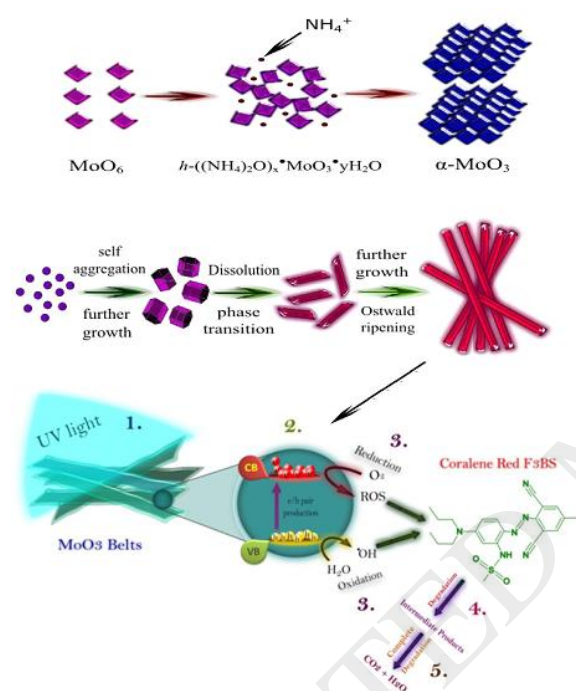
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## Graphical abstract



## Highlights

- $\alpha$ -MoO<sub>3</sub> micro-belts were synthesized hydrothermally
- Micro-belts were found very rich in surface oxygen vacancies.
- CR-F3BS photocatalytic degradation was promising
- The cytotoxicity and mutagenicity were reduced significantly of CR-F3BS

## Abstract

$\alpha$ -MoO<sub>3</sub> micro-belts were synthesized via hydrothermal technique and characterized by scanning electron microscopy (SEM), X-ray diffraction (XRD), atomic force microscopy (AFM), energy

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