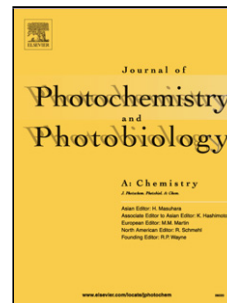


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## Influence of preparation method and nitrogen (N) doping on properties and photocatalytic activity of mesoporous SrTiO<sub>3</sub>

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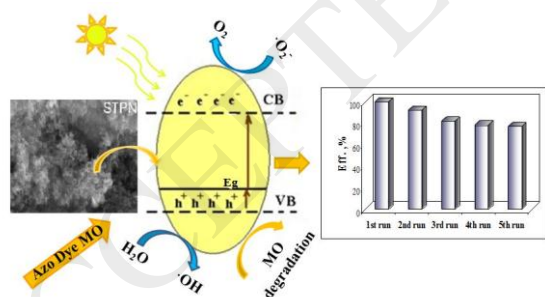
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Graphical abstract



Highlights

- Nitrogen (N)-doped SrTiO<sub>3</sub> and pristine SrTiO<sub>3</sub> powders were synthesized by three different methods.
- Doping with N causes significant reduction of the band gap (~ 1eV).
- Photocatalytic activity of the obtained samples was investigated.
- A reaction mechanism to explain photocatalytic degradation of methyl orange (MO) was proposed.

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