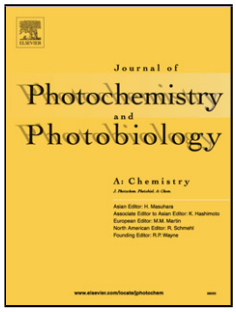

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A comparative Study on Mesoporous and Commercial TiO_2 Photocatalysts for Photodegradation of Organic Pollutants

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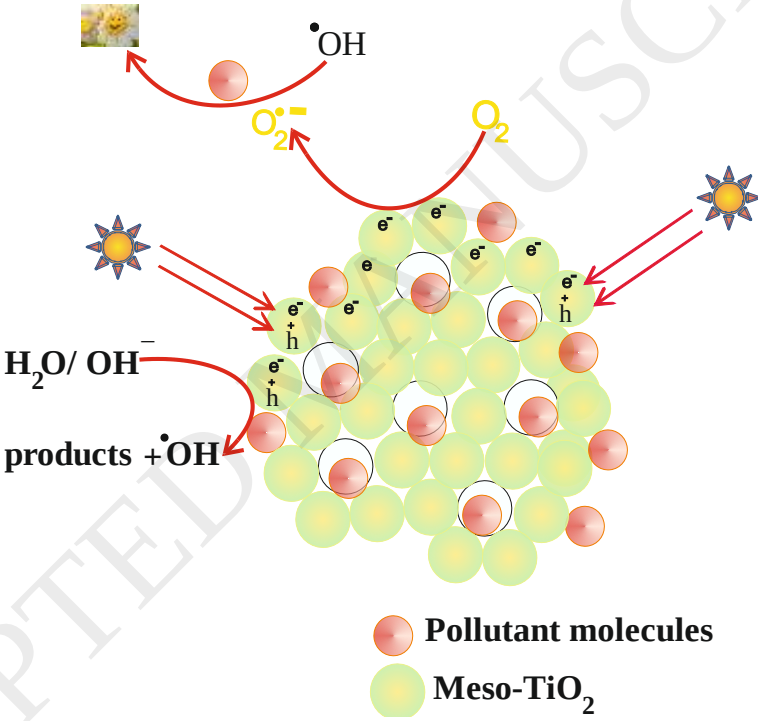
Graphical Abstract



Highlight

- Photooxidation of different pollutants over the mesoporous and commercial TiO_2 was evaluated.
- The photocatalytic efficiency of mesoporous TiO_2 is 100 % for all employed pollutants.
- The photocatalytic efficiency was reduced to 40-60% and 60-80% using UV-100 or P25.
- The photodegradation rate over mesoporous TiO_2 is higher 3-6 and 2 times than UV-100 and P25.