



# **Photocatalytic Activity Enhancement of Titanium Dioxide Nanoparticles: Degradation of Pollutants in Wastewater (SpringerBriefs in Molecular Science)**

*Mohamed A. Barakat, Rajeev Kumar*

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In this brief, a comprehensive review of the UV/visible-TiO<sub>2</sub> photocatalytic oxidation process is presented with an insight into the mechanisms involved, the role of titanium dioxide as a catalyst, irradiation sources, types of reactors, and a comparison between various modes of TiO<sub>2</sub> application. An overview of the development and enhancement of the activity of TiO<sub>2</sub> nanoparticles in photocatalysis is presented. The topics covered include a detailed look at the unique properties of the TiO<sub>2</sub> nanoparticles and their relationship to photocatalytic properties. The utilization of the TiO<sub>2</sub> nanoparticles as photocatalysts, in the non-doped and doped forms is also reviewed. Finally, the use of modified TiO<sub>2</sub> nanoparticles has made a significant contribution in providing definitive mechanistic information regarding the visible light photocatalytic processes.

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