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## PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE: A REVIEW ON MODIFIED TITANIUM DIOXIDE

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### ABSTRACT

Water pollution is increasing through the whole world and various industries are discharging their untreated effluents into the nearby water resources at a great extent. Hence, wastewater treatment with an alternative technology is vital and thus, Advanced Oxidation Process with green chemical approach as photocatalysis has emerged. This review deals with photocatalytic degradation of methylene blue on modified TiO<sub>2</sub>. Firstly detailed information about photocatalytic properties of TiO<sub>2</sub> is given and then various literature studies for methylene blue degradation is reported.

**Keywords:** waste water, TiO<sub>2</sub>, methylene blue, advance oxidation process, photocatalysis