



# Heterogeneous Nanocomposite-Photocatalysis for Water Purification

*Rajendra Pawar, Caroline Sunyong Lee*

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In *Heterogeneous Nanocomposite-Photocatalysis for Water Purification*, the authors introduce various heterogeneous photocatalysts based on novel nanostructures of metal oxide semiconductors and graphene used for water purification, including TiO<sub>2</sub>, Fe<sub>2</sub>O<sub>3</sub>, SnO<sub>2</sub>, WO<sub>3</sub> and g-C<sub>3</sub>N<sub>4</sub>, and outlines their advantages and drawbacks. The nanocomposite-photocatalysts ZnO and CdS are compared with reduced graphene oxide (rGO), a rapidly growing materials system. The authors describe how the photocatalytic activity of known nanomaterials can be improved by modifying the structural and optical properties (i.e., phase composition).

- Introductory portion of the book includes a brief survey of all different kinds of heterogeneous photocatalysts
- Discusses the possible photocatalysis mechanism occurring during the degradation of different toxic pollutants
- Provides the photoelectrochemical measurement for synthesized catalysts, supporting the effective transportation of photoelectrons resulting into better catalytic properties

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