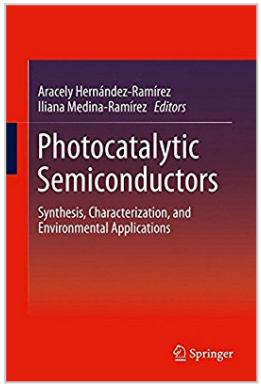

Photocatalytic Semiconductors: Synthesis, Characterization, and Environmental Applications

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This critical volume examines the different methods used for the synthesis of a great number of photocatalysts, including TiO2, ZnO and other modified semiconductors, as well as characterization techniques used for determining the optical, structural and morphological properties of the semiconducting materials. Additionally, the authors discuss photoelectrochemical methods for determining the light activity of the photocatalytic semiconductors by means of measurement of properties such as band gap energy, flat band potential and kinetics of hole and electron transfer. *Photocatalytic Semiconductors: Synthesis, Characterization and Environmental Applications* provide an overview of the semiconductor materials from first- to third-generation photocatalysts and their applications in wastewater treatment and water disinfection. The book further presents economic and toxicological aspects in the production and application of photocatalytic materials.

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Editorial Review

From the Back Cover

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This book also:

· Provides a broad perspective of semiconductors materials with photocatalytic properties

· Emphasizes the importance of the physicochemical and electrochemical characterization of photcatalytic materials

· Includes synthesis methods that produce photocatalytic materials with suitable properties for environmental applications

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