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Lingua di pubblicazione	Inglese
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Nota di contenuto	Chapter 1. Visible-Light-responsive Nanostructured Materials for Photocatalytic Degradation of Persistent Organic Pollutants in Water -- Chapter 2. Surface Modification of Highly Magnetic Nanoparticles for Water Treatment to Remove Radioactive Toxins -- Chapter 3. FeS <sub>2</sub> Pyrite Nanostructures: An Efficient Performer in Photocatalysis -- Chapter 4. Green Synthesized Metal Oxide Nanomaterials Photo Catalysis in Combating Bacterial Infection -- Chapter 5. Progression in Fenton Process for the Waste Water Treatment -- Chapter 6. Electrochemical Aspects for Wastewater Treatment -- Chapter 7. TiO <sub>2</sub> Based Nanocomposites for Photodegradation of Organic Dyes -- Chapter 8. Light Activated Nanoparticles for Antibacterial Studies -- Chapter 9. Green Technologies for Wastewater Treatment -- Chapter 10. Mesoporous Materials for Degradation of Textile Dyes.

## Sommario/riassunto

This book presents comprehensive chapters on the latest research and applications in wastewater treatment using green technologies. Topics include mesoporous materials, TiO<sub>2</sub> nanocomposites and magnetic nanoparticles, the role of catalysts, treatment methods such as photo-Fenton, photocatalysis, electrochemistry and adsorption, and anti-bacterial solutions. This book will be useful for chemical engineers, environmental scientists, analytical chemists, materials scientists and researchers.

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