



Nanotechnology for Environmental Decontamination

Manoj Ram, E. Silvana Andreescu, Ding Hanming

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CUTTING-EDGE NANOTECHNOLOGY TECHNIQUES AND APPLICATIONS FOR ENVIRONMENTAL DECONTAMINATION

Written by a team of global experts, *Nanotechnology for Environmental Contamination* covers the latest methods for using nanomaterials, processes, and tools to remediate toxin-contaminated water, air, soil, groundwater, and wastewater. This groundbreaking work discusses the use of nanotechnology to neutralize microbes, pesticides, heavy metals, industrial chemicals, chemical and biological warfare agents, and other toxic substances. In-depth details on the physics, chemistry, and technology of nanomaterials, nanostructures, and nanotechnology for decontamination are included in this authoritative resource.

- Preparation and application of inner skin hollow fiber nanoporous membrane
- Photocatalytic inactivation of water and air pollution
- Application of nano TiO₂ catalyst in wastewater treatment
- Photoelectrocatalytic degradation of organic contaminants at nanosemiconductor film electrodes under visible light irradiation
- Disinfection of microbes by nanoparticles
- Water disinfection and wastewater decontamination by solar photocatalysis using nanomaterials
- The role of nanotechnology for decontamination of chemical warfare agents
- Nanostructured bioassemblies for environmental bioremediation
- Reactive nanoparticles for the treatment of chlorinated dense nonaqueous phase liquids (DNAPL) in soil and groundwater
- Persistent pesticides: detection and control using nanotechnology
- Decontaminating chemical and biological warfare agents and related toxins with nanomaterials

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