Applying Nanotechnology for Environmental Sustainability

Part of the Advances in Environmental Engineering and Green Technologies Book Series

Sung Hee Joo (University of Miami, USA)

Description:

Nanomaterials have been used for years in industries such as consumer products, textile production, and biomedicine, yet the literature outlining their use in environmental causes is limited. The safety, toxicity, transportation, and removal of this technology must be addressed as nanotechnology and nanomaterial use is expected to grow.

Applying Nanotechnology for Environmental Sustainability addresses the applications of nanomaterials in the field of environmental conservation and sustainability, and analyses the potential risks associated with their use. It elucidates the scientific concepts and emerging technologies in nanoscience and nanotoxicity by offering a wide range of innovative topics and reviews regarding its use.

Readers:

This publication is essential for environmental engineers, researchers, consultants, students, regulators, and professionals in the field of nanotechnology.


Topics Covered:

- Bionanosensors
- Contaminant Removal
- Disinfection Techniques
- Ecotoxicity
- Engineered Membranes
- Environmental Media
- Nanostructures
- Performance Evaluation
- Sustainable Crop Production
- Water Treatment

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