



Nanomaterials in the Environment

Tian C. Zhang, Mausam Verma, Rao Y. Surampalli, and Rajeshwar D. Tyagi Satinder Kaur Brar

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Nanomaterials in the Environment offers the most current knowledge on the environmental impact of materials and products developed using nanotechnology. Nanomaterials are revolutionizing electronics, medicine, transportation, and many other industries, but they pose risks to living beings and ecosystems that are barely understood. The 23 chapters in this book consider the science of nanomaterials, their behavior in the environment, risk assessment and toxicology, and the future of nanomaterials. Topics include: basic physical-chemical nature of nanomaterials; technologies for nanomaterial characterization, assessment, testing, and monitoring; behavior, fate, and transport of natural and engineered nanomaterials in water, air, soil, sediments, and constructed environments; environmental hazards and risk assessment; nanoecotoxicology for animals and humans, microorganisms, plants, and ecosystems; ethical, legal, and social implications; responsible nanotechnology; and green nanomaterials. With contributions from the leading researchers in nanotechnology, this book is an essential reference for scientists, practicing engineers, government officials, process managers, and students.



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