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Nota di contenuto	Pesticides and herbicides in water system -- Pharmaceutical and personal care products in wastewater -- Pathological contaminants in wastewater form hospital waste -- Radioactive contaminants in wastewater from hospital waste -- Endocrine disturbing hormones and antibiotics in wastewater -- Water disinfection by-products in the drinking water system -- Surfactants and flame retardants in water resources -- Dye and dye-containing hazardous waste in water resource -- Plastics and microplastics in the water system -- Manufactured Nanomaterial in the water system -- Detection and measurement techniques of emerging contaminants -- Health hazards of different emerging contaminants -- Biological treatment methods

for emerging contaminants -- Physical treatment measures of the emerging contaminants -- Chemical treatment methods for emerging contaminants -- Advance and integrated treatment methods.

Sommario/riassunto

This present book serves as a comprehensive compilation of various emerging contaminants in the ecosystem, their contamination risk as well as the applicable remediation techniques. Exploding urbanization and industrialization often combined with improved standards of living have resulted in deleterious effects on the quality of the environment. Due to rapid growth of industrialization in the past few decades, large amounts of undesirable wastes are being discharged into the environment threatening the survival of living beings on the earth. In the recent years, the problems regarding pollution have become more global, and awareness about the environmental problems is increasing continuously. Environmental awakening has led many scientists to focus on the assessment of environmental impact of various emerging contaminants. The first victims of the environmental pollution are the terrestrial plants and aquatic bodies in the vicinity of urban areas that experience heavy pollution due to industrial effluents, toxic chemicals, hospital waste, radioactive waste, industrial fumes, vehicular traffic, etc. The increasing industrialization and use of hazardous chemicals are responsible for the lack of access to clean water in many parts of the world. In view of the widespread occurrence, persistence, and harmful effects of environmental pollutants on human population, the present book is proposed. Emerging contaminants due to ubiquitous distribution, persistence, and toxic effects have necessitated the development of efficient methods for remediation of contamination. Reports appearing from time to time reveal that the number and concentration of contaminants in the environment are continuously increasing. Thus, development as well as dissemination of new and eco-friendly methods for the removal of these pollutants has become a challenging task.
