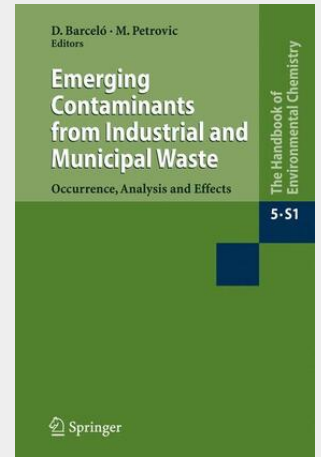


Emerging Contaminants from Industrial and Municipal Waste

Occurrence, Analysis and Effects

The group of non-regulated contaminants termed "emerging contaminants" mainly comprises products used in large quantities in everyday life, such as human and veterinary pharmaceuticals, personal care products, surfactants and surfactant residues, plasticizers and various industrial additives. The occurrence of "emerging contaminants" in wastewaters, and their behavior during wastewater treatment and production of drinking water are key issues in the re-use of water resources. Emerging Contaminants from Industrial and Municipal Waste focuses on innovative treatment technologies for the elimination of emerging contaminants from wastewater and drinking water. The respective treatment processes, such as membrane bioreactors, photocatalysis, ozonation and advanced oxidation are dealt with in detail. The book also discusses sources and occurrence of emerging contaminants in municipal and industrial waste, giving a concise and critical overview of state-of-the-art analytical methods for their identification. Further important aspects covered by the book include the acute and chronic effects and overall impact of emerging contaminants on the environment.

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213,99 €

199,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783642094231

Medium: Buch

ISBN: 978-3-642-09423-1

Verlag: Springer

Erscheinungstermin: 09.10.2011

Sprache(n): Englisch

Auflage: 1. Auflage. Softcover version of original hardcover Auflage 2008

Serie: The Handbook of Environmental Chemistry

Produktform: Kartoniert

Gewicht: 324 g

Seiten: 192

Format (B x H): 155 x 235 mm

