

Natural Organic Matter in Water

Second Edition

CHARACTERIZATION, TREATMENT METHODS, AND CLIMATE CHANGE IMPACT

Mika Sillanpää and Yuri Park

Natural Organic Matter in Water: Characterization, Treatment Methods, and Climate Change Impact focuses on advance filtration and treatment options, as well as processes for reducing disinfection by-products, making it an essential resource to the latest breakthroughs in the characterization, treatment, and removal of natural organic matter (NOM) from drinking water.

Based on the editors' years of research and field experience, *Natural Organic Matter in Water* begins with the characterization of NOM (including general parameters, isolation and concentration, fractionation, composition and structural analysis, and biological testing). This is followed by removal methods such as inorganic coagulants, polyelectrolytes, and composite coagulants. Electrochemical and membrane removal methods—such as electrocoagulation, electrochemical oxidation, microfiltration and ultrafiltration, nanofiltration, and membrane fouling—are covered. In this book, researchers will also find a discussion of NOM removal by advanced oxidation processes, adsorption, and ion exchange. *Natural Organic Matter in Water* is a valuable guide for engineers and researchers looking to integrate methods, processes, and technologies to achieve their desired effects.

- Provides a summary of the up-to-date information about the content of NOM
- Presents enhanced knowledge on treatment strategies for the removal of NOM
- Covers conventional as well as advanced NOM removal methods

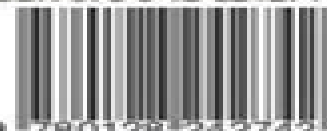
Mika Sillanpää's research work centers on chemical treatment in environmental engineering and environmental monitoring and analysis. Mika Sillanpää received his MSc (Eng.) and DSc (Eng.) degrees from Aalto University, where he also completed an MBA degree in 2013. He has published more than 700 articles in peer-reviewed international journals. Mika Sillanpää has received numerous awards for research and innovation. For example, he is the first Laureate of Scientific Committee on the Problems of the Environment (SCOPE)'s Young Investigator Award, which was delivered at the UNESCO Conference in Shanghai 2010 for his "significant contributions, outstanding achievements, and research leadership in Environmental Technological Innovations to address present water pollution problems worldwide, especially with regard to wastewater treatment and reuse."

Dr. Yuri Park completed her PhD degree at Queensland University of Technology, Australia, in 2013 and obtained her Postdoctoral fellowship at Dalhousie University with Centre of Water Resources and Studies. Currently, she is appointed at the Institute of Environmental Technology at Seoul National University of Science and Technology. Her main research areas are the synthesis of sustainable nanomaterials and their application for environmental remediation, water quality analysis, and development of water treatment techniques such as adsorption, extraction, and AOPs including UV, ozone, and photo(electro)catalysis, analytical method development/validation, and chemical analysis of environmental contaminants in various matrices. She has published more than 25 articles in the past 6 years in international journals in the fields of chemistry, material science, earth and planetary science, and environmental science and engineering.



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