



Special Issue Reprint

Assessment of Different Contaminants in Freshwater

www.mdpi.com/books/reprint/2948

Edited by Diana M. P. Galassi Tiziana Di Lorenzo Grant Hose

ISBN 978-3-03943-000-0 (Hardback) ISBN 978-3-03943-001-7 (PDF)

In many parts of the world, freshwater is a subject of frequent and intense large-scale disturbances. Pollution, water withdrawal, alteration of freshwater flows, road construction, aquifer mining, surface water diversion, desertification, wetland drainage, soil erosion in agriculture, deforestation, and dam building have led to some irreversible species losses and severe changes in community compositions of freshwater ecosystems. Pollution represents one of the most relevant impacts on freshwater environments, ranging from surface water bodies—such as springs, streams, rivers, lakes, and intermittent waterbodies—to groundwater and transitional habitats between surface waters and groundwaters. The origins and fates of pollutants are different and depend on various pollutants, including fertilizers with pesticides in agricultural areas, heavy metals, chlorinated organic compounds, and polycyclic aromatic hydrocarbons (PAHs), which are predominantly derived from industrial and urban settlements. Another pollutant is microplastics, which can increase in concentration in freshwater bodies and constitute emerging contaminants in freshwater systems when taken together with pharmaceuticals, personal care products (PCPs), and endocrine-disrupting compounds (EDCs). The broad distribution of several pollutants leads to significant changes of freshwater ecosystems, together with the extinction of the most sensitive species or the drastic lowering in abundances of others, thus altering community compositions and the ecosystem services provided by freshwater hindiversity



Order Your Print Copy You can order print copies at www.mdpi.com/books/reprint/2948



MDPINBOOKS Publishing Open Access Books & Series

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



ᆔ

High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).

Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.

MDPI AG Grosspeteranlage 5 4052 Basel Switzerland Tel: +41 61 683 77 34 www.mdpi.com/books books@mdpi.com

