



*water*



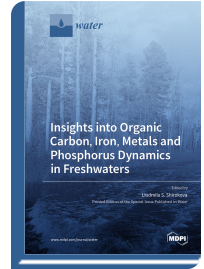
*Special Issue Reprint*

## **Insights into Organic Carbon, Iron, Metals and Phosphorus Dynamics in Freshwaters**

[www.mdpi.com/books/reprint/6941](http://www.mdpi.com/books/reprint/6941)

Edited by  
Liudmila S. Shirokova

ISBN 978-3-0365-6744-0 (Hardback)  
ISBN 978-3-0365-6745-7 (PDF)



Organic carbon (OC), nutrients and trace metals are key aquatic components of freshwater systems, including groundwater, soil water, lakes, rivers, and their estuaries. Over the past decade, there has been increasing interest regarding the rising in organic carbon and iron concentrations in freshwaters in relation to the so-called “browning” effect, caused by climate warming and changes in anthropogenic pressure. As for phosphorus, it is a vital element for all aquatic ecosystems and its aquatic biogeochemical cycle now undergoes sizable changes linked to eutrophication, invasive species development, and transformations between organic and inorganic forms. This book combines the articles dedicated to various aspects of the behavior of organic carbon, phosphorus, iron (and other related metals) in a broad range of freshwater environments, from soil solutions and groundwaters to ponds, lakes, rivers, and their riparian zones and estuaries.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/6941](http://www.mdpi.com/books/reprint/6941)

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.



### **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.