



*water*



*Special Issue Reprint*

## **Advances in Urban Groundwater and Sustainable Water Resources Management and Planning**

[www.mdpi.com/books/reprint/6436](http://www.mdpi.com/books/reprint/6436)

Edited by

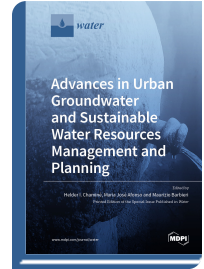
Helder I. Chaminé

Maria José Afonso

Maurizio Barbieri

ISBN 978-3-0365-6001-4 (Hardback)

ISBN 978-3-0365-6002-1 (PDF)



In nature, urban groundwater results in multiple processes, including climatic, geological, geomorphological, geochemical, ecotoxicological, and hydraulic processes, in addition to sanitation, all of which sustain varied ecological services. Urban development profoundly impacts hydrological systems, particularly in the invisible component of the water cycle, the groundwater. That impact was perceived a considerable while in the past, and the initial focus was drawn to societal roles in the development of urbanisation and the consequent contamination and pollution of hydrosystems. Additional issues in sustainable water resource management and hydrological cycle comprehension are added by urbanisation. The Special Issue highlights the presentation and discussion of model urban studies and reflections that describe the current state-of-the-art methods on challenges and emerging fields related to the mapping, characterisation, assessment, mitigation, and protection of sustainable groundwater systems in peri-urban and urban areas. In the current year, 2022, World Water Day was dedicated to groundwater, and the process of making the invisible visible. This Special Issue offers a set of papers that promote reflections, methodologies, and learned studies on the importance of fresh water in urban areas.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/6436](http://www.mdpi.com/books/reprint/6436)

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.