

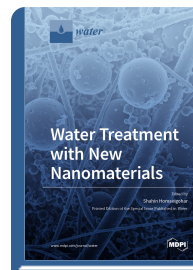
Special Issue Reprint

Water Treatment with New Nanomaterials

www.mdpi.com/books/reprint/2746

Edited by
Shahin Homaeigohar

ISBN 978-3-03936-810-5 (Hardback)
ISBN 978-3-03936-811-2 (PDF)



Given that the threat of water shortage is expanding across the globe, the evolution of advanced technologies that enable water purification and, thus, water re-use in an energy and resource efficient manner are of great importance. In this regard, nanomaterials have been playing a crucial role and offering new opportunities for the construction of permeable and selective membranes and adsorbents. Such features are of paramount importance, particularly given the limited available energy resources. In this book, several recent studies are introduced that deal with water treatment via nanomaterial-based technologies. Such state-of-the-art technologies have employed nanomaterials that are made of polymer, composite, ceramic, and carbon, etc., and are shaped in various dimensionalities and forms such as particle (0D), fiber (1D), and film (2D–3D). The nanostructured membranes and adsorbents as well as photocatalytic nanosystems capable of active photodecomposition of organic pollutants, e.g., dyes, are the main focal points of discussion.

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.