



toxics

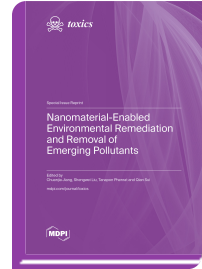


Special Issue Reprint

Nanomaterial-Enabled Environmental Remediation and Removal of Emerging Pollutants

www.mdpi.com/books/reprint/11800

Edited by
Chuanjia Jiang
Shengwei Liu
Tanapon Phenrat
Qian Sui



ISBN 978-3-7258-5689-3 (Hardback)
ISBN 978-3-7258-5690-9 (PDF)

Environmental pollution poses a threat to public health and the ecological environment. Fortunately, the rapid development of nanotechnology has opened up new opportunities for more efficient and cost-effective pollution control and environmental remediation. A range of novel nanomaterials have been explored for the enhanced removal of various legacy and emerging pollutants via adsorption, membrane separation, catalytic oxidation/reduction/hydrolysis, photocatalysis, etc., thereby contributing to global environmental protection and sustainable development. In fact, the application of nanomaterials for pollution control and environmental remediation has emerged as one of the most active and productive research frontiers in the field of environmental science and engineering.

This Special Issue comprises two comprehensive reviews and eight original research articles, with international authorship from six countries. These papers highlight recent progress in the development of nanomaterials, including metal-based, carbon-based, and composite nanomaterials, for the removal of both organic pollutants (e.g., pesticides, dyes, and formaldehyde) and heavy metals. The advances and insights presented herein will inspire further innovation and foster interdisciplinary collaboration, ultimately contributing to safer, more efficient, and sustainable nanotechnology for environmental protection applications.



Order Your Print Copy
You can order print copies at
www.mdpi.com/books/reprint/11800

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.