

Special Issue Reprint

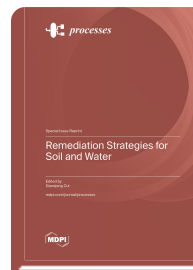
Remediation Strategies for Soil and Water

www.mdpi.com/books/reprint/11299

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ISBN 978-3-7258-4783-9 (Hardback)

ISBN 978-3-7258-4784-6 (PDF)



With the rapid development of industries worldwide, soil and water pollution have accelerated in recent decades. The pollutants, including heavy metals, polycyclic aromatic hydrocarbons, antibiotics, and microplastics, in soil and water pose severe environmental problems, presenting serious risks to human health and the ecological system. Approximately 4 billion people, representing around half of the world's population, experience severe physical water scarcity for at least part of the year. Hence, several techniques have been developed for the remediation of contaminated soil and water, including adsorption, membrane separation, advanced oxidation, ion exchange, electrochemical treatment, microbial degradation, and phytoremediation. Considering the ongoing issue of pollution and emerging pollutants, remediation strategies for soil and water should be further optimized to focus on developing functional materials, improving remediation efficiency, and enhancing integrated remediation processes. This Reprint, entitled "Remediation Strategies for Soil and Water," features six research articles and three review papers, each addressing critical aspects of remediation processes for soil and water.

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