



water

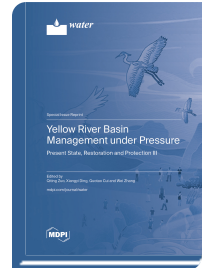


Special Issue Reprint

Yellow River Basin Management under Pressure

www.mdpi.com/books/reprint/11937

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ISBN 978-3-7258-5989-4 (Hardback)
ISBN 978-3-7258-5990-0 (PDF)

This Special Issue marks the third edition in a series dedicated to the sustainable management and development of the Yellow River Basin, following successful publications in 2022 and 2023. The Yellow River, as a vital ecological and economic region in China, faces ongoing challenges such as human–water relationship coordination, water security, resource allocation, ecological restoration, pollution control, and emerging contaminants. These issues significantly constrain the basin's high-quality growth and ecological integrity. This collection brings together ten innovative research papers predominantly authored by researchers from Chinese universities and research institutions, providing in-depth insights into the region's unique environmental and socio-economic context. The contributions are categorized into five themes: resource endowment and basic characteristics, management strategies and opportunities, harmony between human activities and water systems, pollution governance, and ecological restoration. Topics include developing advanced water indexing methods, optimizing reservoir operations, constructing basin simulation platforms, assessing water security, analyzing pollution trends, and evaluating soil erosion risks. By sharing cutting-edge methodologies, technological advances, and policy suggestions, this Special Issue aims to foster ecological protection and support high-quality regional development. The ongoing interest in this topic underscores its importance for ecological resilience, social stability, and sustainable progress in one of China's most significant river.



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