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Collana	Advances in Science, Technology & Innovation, IEREK Interdisciplinary Series for Sustainable Development, , 2522-8722
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Soggetti	Water Hydrology Energy policy Environmental management Sustainability Refuse and refuse disposal Energy Policy, Economics and Management Environmental Management Waste Management/Waste Technology
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Nota di contenuto	Water as key resource in Circular Economy -- Impact Of Climate Change on Water Status: Challenges and Emerging Solutions -- Integrated Water Management - Directions of Activities and Policies -- Circular Water Management in Smart Cities -- The Influence of Mineral Parameters on the Geochemistry of Heavy Metals in Bottom Sediments -- Sustainable Water Use in Agriculture - Circular Economy Approach -- Innovative Solutions in the Transition to Circular Economy in Water Sector -- Advanced Treatment Technologies in Removal of Pollutants from Water and Wastewater -- The Role of Water Recycling in Building a Circular Economy in the Textile Industry -- The Role of Water Recycling in Building a Circular Economy in the Textile Industry -- Preliminary Microbiological Risk Assessment for Local Water Reuse in a Small MBR

Waste Water Treatment Plant -- Can Remote Sensing be a Useful Tool to Increase Water Reuse in Agriculture? -- Nutrients Recovery in Water and Wastewater Sector -- Technologies for Nutrient Recovery From Municipal Wastewater -- Circular Economy in Domestic and Industrial Waste Waters: Challenges and Opportunities -- Monitoring of Circular Economy Implementation in Water Sector -- Water Footprint of Business and Circular Economy -- Economic, Social and Environmental Dimensions in the Circular Economy (CE) Monitoring Framework in Water and Wastewater Sector -- Circular Economy Indicators and Measures in Water and Wastewater Sector – Case Study -- Business Opportunities in Water and Wastewater Sector as a Part of the Resolve Framework -- Circular Economy Implementation in the Water Sector: Wastewater Treatment Plant Tychy-Urbanowice Case Study -- Wastewater-Based Circular Economy Operations in East Kolkata Wetlands (The Largest Ramasar Site in South Asia), India.

Sommario/riassunto

This book presents possible solutions for a circular economy (CE) in the water and wastewater sector through an inventory of multidisciplinary knowledge with high scientific and practical importance which can contribute to support the transition to the CE model in water and wastewater sector. Water in modern studies exceeds being an important source for irrigation and drinking. It is now a significant source of renewable energy and a catalyst in most industrial and manufacturing products. The protection and sustainable management of water resources and water-based waste (as wastewater, sewage sludge, or sewage sludge ash) are important aspects of the CE, which is defined as a regenerative growth model that gives back to the planet more than it takes. Our book, entitled "Water in Circular Economy", delivers a comprehensive overview of the latest research covering the following aspects of water management from the perspective of the CE implementation: · Water as a key resource in the circular economy; · Innovative solutions in transition to the circular economy in water and wastewater sector; · Monitoring of circular economy implementation in water and wastewater sector.
