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Nota di contenuto	About the Editors vii -- Preface to "Industrial and Municipal Wastewater Treatment with a Focus on Water-Reuse" ix -- Possibilities and Challenges of Wastewater Reuse-Planning Aspects and Realized Examples 1 -- Social-Ecological Impact Assessment and Success Factors of a Water Reuse System for Irrigation Purposes in Central Northern Namibia 13 -- Sustainable Wastewater Management to Reduce Freshwater Contamination and Water Depletion in Mexico 35 -- Characterization and Treatment Technologies Applied for Produced Water in Qatar 55 -- Assessment of the Effect of Irrigation with Treated Wastewater on Soil Properties and on the Performance of Infiltration Models 95 -- Operation and Performance of Austrian Wastewater and Sewage Sludge Treatment as a Basis for Resource Optimization 107 -- Feasibility Study of Water Reclamation Projects in Industrial Parks Incorporating Environmental Benefits: A Case Study in Chonburi, Thailand 123 -- Long-Term Toxicological Monitoring of a Multibarrier Advanced Wastewater Treatment Plant Comprising Ozonation and Granular Activated Carbon with In Vitro Bioassays 143 -- Performance of Newly Developed Intermittent Aerator for Flat-Sheet Ceramic Membrane in Industrial MBR System 159 -- Reuse of Textile Dyeing Wastewater Treated by Electrooxidation 169 -- Photo-Catalytic Remediation of Pesticides in Wastewater Using UV/TiO2 185 -- Carbamazepine Removal by Clay-Based Materials Using Adsorption and

Photodegradation 197 -- Ecological Synthesis of CuO Nanoparticles Using Punica granatum L. Peel Extract for the Retention of Methyl Green 215 -- IsIntroducing a Calculator for the Environmental and Financial Potential of Drain Water Heat Recovery in Commercial Kitchens 231.

Sommario/riassunto

Population growth and climate change are leading to global water scarcity. Water shortages are thus hindering rural, urban and industrial development. These days, approximately half of the world's population is affected temporarily by water scarcity. To enable a secure water supply, alternative water sources must be generated to tackle the challenge of water scarcity. An important alternative resource is the reuse of treated wastewater. Water reuse processes are rarely considered and implemented. In contrast to the storage and use of rainwater, treated wastewater is a valuable resource, as it is available daily. Certain wastewater treatment processes are required to produce the new resource "reused water". The treatment processes depend on the quality of the wastewater since industrial and municipal wastewater flows are characterized by different concentrations. Moreover, water reuse methods must be developed in order to use the treated wastewater as efficiently as possible. Ideally, the reused water can be provided according to the "fit for purpose" principle and applied directly in areas such as irrigation, street cleaning, toilet flushing or make-up water for cooling systems. The Special Issue brings together new wastewater treatment technologies and water reuse concepts to tackle the challenges of climate change with the aim of bringing the resource "reused water" according to the "fit for purpose" principle to the user. This issue aims to draw on global experiences, approaches and solutions.