



Industrial Water Management



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ABSTRACT

Water is and will be the most important solvent and cooling medium in industrial processes. Therefore, industry is discharging worldwide large amounts of wastewater into municipal wastewater treatment plants (WWTP) and surface water bodies. Before, it requires various physical, chemical, and biological treatment steps accompanied by investment, operating costs, and environmental footprints. However, besides water, wastewater contains chemical and heat energy and valuables such as nitrogen, phosphorus, specific substances, and salts. Different examples will be presented to demonstrate the potential of wastewater recycling and utilization of the ingredients and the heat.

SPEAKER CV

Prof. Sven-Uwe Geissen is the Professor and head of the Environmental Process Engineering Chair, Department of Environmental Technology, TU Berlin. He has been working as a lecturer and Professor at Technical University of Clausthal and, currently, at Nanjing University of Technology China. He is also a member of the International Water Association (IWA) expert group and a member of the executive board of German Water Partnership. Prof. Geissen has been working on many international research projects in different countries like Morocco, Peru, Brazil, Tunisia, China and Iran. His expertise lies in water and wastewater treatment processes and industrial water management. He has been involved in the project “Integrated Water Resources Management Zayandeh Rud” (2010-2018), funded by German Federal Ministry of Education and Research, as the head of industrial water studies.