The future of water reuse – connecting wastewater with the environmental flow

Water is the most precious, limited resource on Earth and there is a high demand to improve

- the quality of wastewater treatment discharge
- the potential of water re-use

The Aquatic Ecology and Ecosystem Studies Group, lead by Prof. Anas Ghadouani, has intensively worked with various authorities to improve the quality of wastewater treatment pond (WWTP) discharge, that is released into the environment.

This was done by using environmentally benign chemicals to reduce toxic algal blooms and by monitoring sludge accumulation and subsequently modelling hydraulic performance, which is likely a key parameter responsible for water quality.

The main aims are to reduce the costs of water treatment, to increase the amount of water re-used, to reduce the risk of contamination of water resources and to develop reliable indicators for anthropogenic contamination.

Current projects embedded in a framework showing the flow between water resources

Contact and links

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