Special Issue

Advances in Engineered Wetlands for Treating Agricultural Runoff

Message from the Guest Editors

Modern agriculture produces high yields of crops that are necessary for life, but it also produces runoff that may have large impacts on the receiving waterbodies. This non-point discharge contains nutrients, often dominated by nitrogen (N), in the form of nitrate, and phosphorus (P), along with suspended solids. The runoff also often contains pesticide residues, used to prevent insect damage and control weeds. It has been thirty years since the pioneering work of the US Department of Agriculture (Wengrzynek and Terrell, 1990) and the Swedish Meteorological and Hydrological Institute (Arheimer and Wittgren, 1994) regarding CWs for treating agricultural runoff. Hundreds of wetlands for runoff control have been created. These wetlands vary greatly depending on the crop and the site conditions. Wetlands are a “low tech” remedy, but they can be made more effective if the science is better understood. The goal of this Special Issue is to present current advances in the knowledge base for wetland systems intended to control nutrients, solids, and pesticides in agricultural runoff.

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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