Special Issue

Advances and Challenges in Improving Water Quality with Phosphorus Removal Structures: Scaling Up to the Field

Message from the Guest Editor

The aim of this Special Issue is to present recent advances and challenges in removing dissolved P at the field-scale with P removal structures. Field studies are preferred, but laboratory experiments are welcome if they specifically address challenges related to field implementation of P removal structures. Current challenges in scaling up to field-scale P removal structures include (but are not limited to): 1) achieving a high flow rate while maintaining sufficient P removal; 2) efficiently removing dissolved P from sources with relatively low dissolved P concentrations (i.e. < 0.2 mg/L); 3) re-generating PSMs in-situ; 4) constructing structures on sites with little to no hydraulic head; 5) clogging of media; 6) lack of trained professionals in design and construction of P removal structures; 7) maintaining low costs in construction and maintenance.

Keywords phosphorus removal structures; nutrient losses; water quality; phosphorus removal; phosphorus treatment

Guest Editor

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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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