

Invitation to submit to a Special Collection of papers in JEQ: “Agricultural Water Quality under Cold Conditions”



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Invitation to submit short abstracts for consideration before June 30, 2018

We invite authors to provide abstracts of papers they intend to submit for the Special Collection to Dr. Jian Liu (jian.liu@usask.ca) before June 30, 2018. Abstracts must reflect original research related to objectives in Special Section Rationale, below. Submissions should include a list of contributory authors and their affiliations, an appropriate title, and a brief abstract of < 250 words.

Suitable abstracts invited to submit full manuscripts by November 30, 2018

Submitted abstracts will be considered by the Guest Editors and Technical Editor. The corresponding authors will be informed of the suitability of the paper to the Special Collection within two weeks of abstract submission. Those deemed suitable will be invited to submit full manuscripts to the Journal before November 30, 2018 at <https://mc.manuscriptcentral.com/jeq>. The review process starts at submission, and accepted papers will be published online shortly after acceptance before publication of the full issue. All full manuscript submissions will be subject to the JEQ peer review process. Author instructions can be found at <https://dl.sciencesocieties.org/publications/jeq/author-instructions>

Special Section Rationale:

Despite the tremendous progress in understanding mechanisms and trends of agricultural water quality and success in implementing mitigation strategies in recent decades, there are still many scientific unknowns with respect to agricultural water quality in regions with cold winters. Under cold conditions, patterns and pathways of nutrient cycling and losses to water are different from those in warmer regimes, due to effects of soil freeze-thaw processes, snow fall and melt, and minimal nutrient uptake and retention by plants. Even within stream networks, transport of nutrients can be influenced by freeze-thaw of sediments, water, and aquatic plants. Correspondingly, special considerations are needed for monitoring, predicting, and remediating water quality under cold conditions.

This special section of papers in JEQ will span the current state of the science on agricultural water quality under cold conditions. In particular, we expect submissions that can enhance our knowledge of water quality trends and controlling mechanisms at various temporal and spatial scales, and development and application of monitoring and prediction approaches as well as mitigation strategies, in the context of cold conditions.

Example contributions include:

- Processes influencing agricultural water quality under cold conditions
- Nutrient cycling in the plant-soil-water continuum under cold conditions
- Patterns and pathways of nutrient transport under cold conditions
- Approaches to monitoring and predicting agricultural water quality under cold conditions
- Beneficial management practices for agricultural water quality under cold conditions
- Climate change impacts on agricultural water quality under cold conditions, and adaptive mitigation strategies