Special Issue

Advanced Technologies for Produced Water Management, Treatment, and Reuse

Message from the Guest Editors

Substantial volumes of wastewater are produced every day during oil and natural gas production operations. Produced water is typically disposed of via deep-well injection in oil- and gas-producing regions. Meanwhile, a large amount of fresh water is used for hydraulic fracturing. The reuse of produced water can reduce the volume of water that requires disposal and provide a new source of water for beneficial uses. This Special Issue is designed to collect original research and review articles focusing on advanced technologies for produced water management, treatment, and use. This Special Issue brings together emerging approaches, challenges, and opportunities related to produced water with the ultimate aim to accelerate the development of innovative technologies, combinations or enhancements of existing technologies, and technological and economic assessment of produced water treatment and reuse. Subject areas may include, but are not limited to, the following: **Keywords:** produced water; oil and gas production; treatment technologies; water management; water reuse; desalination; advanced oxidation; techno-economic analysis; water quality analysis

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Message from the Editor-in-Chief

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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