

## Special Issue

# Desalination Treatment of Irrigation Water

### Message from the Guest Editors

Irrigation accounts for about 70% of global anthropogenic water usage. Global agricultural land is about 5 billion ha. About 20% of arable land is irrigated. About 30% of irrigated land is irrigated with saline water (>60 million ha). The amount of land affected by saline irrigation is increasing by about 4 million ha a<sup>-1</sup>. Soil salinization, associated with saline irrigation, results in the abandonment of about 20,000 ha a<sup>-1</sup>. Irrigated land accounts for 40% of global food production. Irrigated water demand is 50,000 m<sup>3</sup> ha<sup>-1</sup> a<sup>-1</sup> for some rice crops. Global food demand is expected to rise by between 60% and 100% by 2050, to feed 9.1 billion people. The majority of the future increase in food production, required to meet this demand, will be confined to areas which are currently irrigated with saline water or which will become newly irrigated with saline water. [...]

For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/water/special\\_issues/69731F6R4O](https://www.mdpi.com/journal/water/special_issues/69731F6R4O)

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### Deadline for manuscript submissions

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## Water

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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.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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