



Latest Innovations in Seawater Desalination Processes

Guest Editors:

Dr. Bartolomé Ortega-Delgado

Department of Energy
Engineering, Escuela Técnica
Superior de Ingeniería, 41092
Sevilla, Spain

Dr. Patricia Palenzuela-Ardila

Solar Thermal Applications Unit,
CIEMAT-Plataforma Solar de
Almería, 04200 Tabernas, Spain

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editors

Dear Colleagues,

Water scarcity and the depletion of water reservoirs are increasing threats in many areas of the world. It is estimated that 66% of the global population suffers from severe water stress for at least one month per year, and this share is expected to increase in the near future. In this regard, seawater desalination is a feasible solution to mitigate this issue.

This Special Issue on “Latest Innovations in Seawater Desalination Processes” seeks high-quality works focusing on the latest novel advances in desalination processes, mainly aimed at membrane-based seawater desalination and including emerging technologies such as forward osmosis and pressure-retarded osmosis.

Topics include, but are not limited to:

- Progress in membrane and thermal desalination processes (forward osmosis, pressure-retarded osmosis, reverse osmosis, nanofiltration, multi-effect distillation, membrane distillation).
- Advancements in desalination processes powered by renewable energy (solar, wind, geothermal, ocean, etc.).
- Innovative combined power and desalination schemes (Rankine and Brayton cycles).
- Zero liquid schemes (brine valorization/recovery).





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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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Processes Editorial Office
MDPI, St. Alban-Anlage 66
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