



Water Desalination: Most Available Alternative over the Earth for Covering the Freshwater Shortage

Guest Editors:

Prof. Dr. Abdelkader T. Ahmed

1. Civil Engineering Department,

Faculty of Engineering, Aswan

University, Aswan 81542, Egypt

2. Civil Engineering Department,

Faculty of Engineering, Islamic

University, Madinah 42351, Saudi

Arabia

Dr. Md. Shafiquzzmaan

Department of Civil Engineering,

College of Engineering, Qassim

University, Buraydah 51452,

Saudi Arabia

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Message from the Guest Editors

The fresh surface water is very limited as it is around 0.3% of earth water. The groundwater withdrawal and glaciers melting may provide some resources for fresh water, but they are not available everywhere. Seawater desalination may introduce the best solution for providing freshwater as access to saltwater is available for most countries. The process is usually costly and extensively consumes energy resources. The challenge is to find new technologies providing a high enough quantity of water with low-cost and eco-friendly applications. For example, using direct solar energy for the desalination of seawater may introduce the best low-cost and clean option; however, the main disadvantage of this process is the low productivity. Thus, intensive research work is needed to solve all these difficulties and introduce an updated process, which will provide the world with the magic solution for the water shortage. The scope of this special issue, therefore, is to review the current desalination processes, identify the advantages and disadvantages of the processes, and explore new





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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Sustainability Editorial Office
MDPI, St. Alban-Anlage 66
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