Special Issue

New Perspective on Groundwater Contamination Treatment: Bioelectrochemical Systems

Message from the Guest Editors

Biolelectrochemical systems are emerging as a new technology with yet unexplored possibilities in the field of soil and groundwater remediation. New technologies for the treatment of industrially contaminated groundwater and soil remediation based on bioelectrochemical systems (BES) or microbial electrochemical technologies (MET) are being proposed, in which “electro-active” bacteria (EAB) catalyse oxidation or reduction reactions using solid-state electrodes, suitably deployed in the contaminated matrix, as virtually inexhaustible electron acceptors or donors, respectively. The development and optimization on a lab scale of such systems focusing on specific industrial contaminants, such as chlorinated hydrocarbons and hydrocarbons, but also including nitrates and heavy metals, have been described in recent literature. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/Groundwater_Contaminated_Bioelectrochemical

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Deadline for manuscript submissions

closed (31 October 2020)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/21039

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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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