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New Perspective on Groundwater Contamination Treatment: Bioelectrochemical Systems

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Message from the Guest Editors

Dear Colleagues,

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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Message from the Editor-in-Chief

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