

Special Issue

Research Trends in Electrochemical Technology for Sustainable Environmental Applications

Message from the Guest Editors

The increasing frequency and intensity of climate-related disasters, driven by climate change, underscore the urgent need for innovative and sustainable environmental protection strategies. These approaches must not only address pollution but also align with the principles of the circular economy by enabling the energy recovery or the production of value-added materials.

This Special Issue aims to provide a comprehensive overview of recent advances and emerging trends in electrochemical technologies, with a focus on their applications in energy recovery and the synthesis of value-added products to enhance the cost-efficiency of environmental protection solutions.

Key topics of interest include the development and application of batteries and supercapacitors, innovative approaches to electrochemical sensors, advancements in fuel cells, functionalization of sustainable materials through advanced treatments, valorization of wastes as raw materials for electrochemical technologies and the removal of pharmaceutical and persistent pollutants from the environment.

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