

Special Issue

Advanced Functional Materials and Interfaces for Electrochemical Energy Storage and Environmental Catalysis

Message from the Guest Editors

This Special Issue aims to highlight recent progress in the synthesis, characterization, and application of next-generation materials such as metal–organic frameworks (MOFs), covalent organic frameworks (COFs), nanostructured composites, doped carbon materials, and solid-state electrolytes for use in batteries, supercapacitors, electrocatalysis (HER, OER, and ORR), and CO₂ conversion. Emphasis is placed on understanding structure function relationships, tuning surface/interface chemistry, and integrating computational modeling with experimental strategies. Studies that explore the development of hybrid electrolytes, multi-functional membranes, and interface engineering for lithium metal batteries and fuel cells are particularly welcome. We also encourage submissions that present innovative approaches in seawater-based electrochemical CO₂ sequestration and mineralization. This Special Issue provides a multidisciplinary platform to showcase breakthroughs that bridge the gap between fundamental research and scalable technologies for clean energy and environmental sustainability.

Guest Editors

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Editor-in-Chief

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