

## 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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

Dr. Muhammad Kashif Majeed  
Dr. Adil Saleem  
Dr. Rashid Iqbal

### Deadline for manuscript submissions

30 March 2026



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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

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