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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Deadline for manuscript submissions

closed (30 March 2026)

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Message from the Editor-in-Chief

ChemEngineering is to consolidate its position as a high-quality, open access journal that not only disseminates excellent research but also sets the agenda for future directions in chemical engineering. We will continue to highlight core areas such as catalysis, process intensification, and the circular economy, while also opening the door to emerging topics such as multi-energy systems that integrate light, heat, and electricity, etc., as well as digital tools, modelling, and artificial intelligence applied to chemical engineering.

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