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 nextgeneration 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

Dr. Muhammad Kashif Majeed

Dr. Adil Saleem

Dr. Rashid labal

Deadline for manuscript submissions

30 March 2026



ChemEngineering

an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 4.9



mdpi.com/si/250757

ChemEngineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
chemengineering@mdpi.com

mdpi.com/journal/ ChemEngineering





ChemEngineering

an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 4.9



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Mario J. Muñoz Batista

Department of Chemical Engineering, Faculty of Sciences, University of Granada, Avda. Fuentenueva, s/n, 18071 Granada, Spain

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Chemical) / CiteScore - Q1 (General Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 29.6 days after submission; acceptance to publication is undertaken in 5.7 days (median values for papers published in this journal in the first half of 2025).

