

Special Issue

Preparation and Electrochemical Properties of New Carbon Materials

Message from the Guest Editor

The topics of this Special Issue include, but are not limited to, the following:

- The preparation of new carbon or carbon-based materials including porous carbon, active carbon, graphene, modified graphite, carbon nano-tubes, graphdiyne, carbon fibers and carbon based metallic-oxide;
- Growth mechanisms for new carbon materials;
- Mainstream preparation technologies of new carbon materials;
- Electrode preparation technologies;
- Battery materials used to manufacture new electrochemical devices, such as Li-ion batteries, Li-S batteries, Na-ion batteries, supercapacitors, solid-state batteries;
- Microstructural characterization of carbon materials and electrodes.
- Electrochemical performance assessment, such as capacity, coulombic efficiency, rate performance and cycling stability;
- Electrochemical energy storage mechanisms.

Guest Editor

Dr. Zhihua Xiao

College of Carbon Neutrality Future Technology, China University of Petroleum, Beijing 102249, China

Deadline for manuscript submissions

25 November 2025



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/216085

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

[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))