Special Issue

Electrochemical Sensors for the Detection of Environmental Pollutants

Message from the Guest Editors

At present, the detection and monitoring of environmental pollutants represent a critical global challenge due to the increasing prevalence of industrialisation and urbanisation. Currently, carbon-based nanomaterials (such as carbon nanotubes, graphene, carbon dots, and biochar-derived nanostructures) are gaining significant attention for their unique physicochemical properties, including high surface area, electrical conductivity, chemical stability, and tunable surface functionalities. These features make them excellent candidates for developing sensitive, selective, and cost-effective sensors for environmental monitoring.

Suitable topics for this Special Issue include, but are not limited to, the following:

- Fabrication and design of carbon nanomaterial-based sensors
- Functionalization strategies to enhance sensitivity and selectivity
- Electrochemical, optical, and gaseous sensing platforms
- Environmental applications in water, air, and soil pollutant detection
- Sustainability aspects of nanomaterial-based sensors

Guest Editors

Dr. Viviana Bressi

Dr. Rayhane Zribi

Dr. Angelo Ferlazzo

Dr. Claudia Espro

Deadline for manuscript submissions

28 April 2026

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/si/253189

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

mdpi.com/journal/processes

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

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))