

## Special Issue

# Process and Data-Driven Models of Pollutant Transport and Fate in Ecosystems

### Message from the Guest Editors

Topics include, but are not limited to, the following:

- Mechanistic and data-driven predictive models for emerging contaminants (PFAS, pharmaceuticals, microplastics);
- Coupled hydrodynamic–biogeochemical models in river, lake, estuarine, and coastal systems;
- Modeling the uptake, bioaccumulation, and contamination of food webs;
- Model–data assimilation and inverse modeling for contaminant source identification;
- Sorption, desorption, and partitioning process parameterization and upscaling;
- Role of biofilms and microbial transformation in pollutant fate;
- Thermal and chemical transformation pathways and their representation in models, including process models for thermal treatment systems;
- Uncertainty and sensitivity analysis for model-informed decision making;
- Model intercomparisons, benchmarking and best-practice guidance;
- Tools and workflows for reproducible environmental process modelling.

---

### Guest Editors

Dr. Fatih Evrendilek

University of Maine Cooperative Extension, Orono, ME 04469, USA

Dr. Gülsün Akdemir Evrendilek

University of Maine Cooperative Extension, Orono, ME 04469, USA

---

### Deadline for manuscript submissions

30 June 2026



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/259416](https://mdpi.com/si/259416)

*Processes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto: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))