

Special Issue

Microscale Processing with Non-thermal Plasma Discharges and Its Application

Message from the Guest Editors

This Special Issue showcases cutting-edge examples of surface processing for use in applications within the fields of energy, biomedicine, and microelectronics.

Non-equilibrium plasmas constitute very effective media of transport and delivery, having many purposes, such as coating deposition, surface etching/texturing, or functionalization. The scope here goes beyond the typical cases in the thin-film industry and aims to collect the latest know-how on the topics of (1) chemical modification for catalysis, biosensing, and microfluidics applications, and (2) surface engineering to manufacture or modify materials, including nano- and biomaterials.

The presented plasma techniques target processes in the domains of atoms, molecules, cells, and organic tissues. This Special Issue thereby welcomes contributions on plasma processes that seek to generate functional interfaces from the nano- to macroscale. Such a multiscale approach may enable the development of a multidisciplinary line of work aligned with some of the most relevant challenges in electronics, biology, and environmental engineering.

Guest Editors

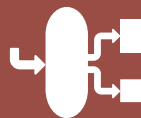
Dr. Carles Corbella

Dr. Sabine Portal

Dr. Li Lin

Deadline for manuscript submissions

closed (20 February 2025)



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/181724

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))