



## Research on Green Processing and Testing Technologies for Food and Beverages

Guest Editors:

**Dr. Konstantina Tsikrika**

Laboratory of Food Chemistry,  
Department of Chemistry,  
National and Kapodistrian  
University of Athens, Zografou,  
15771 Athens, Greece

**Dr. Pol Giménez Gil**

Laboratory of Food Chemistry,  
Department of Chemistry,  
National and Kapodistrian  
University of Athens, Zografou,  
15771 Athens, Greece

Deadline for manuscript  
submissions:

**15 August 2025**

### Message from the Guest Editors

Dear Colleagues,

Growing concerns about the environmental impact and the need to optimize production processes have led to the adoption of green processing technologies. Incorporating such methods in the food and beverage sector can greatly decrease resource usage and waste production while ensuring the safety and quality of the food products and beverages. On the other hand, the use of rapid testing technologies offers the possibility of conducting fast and accurate analyses of raw materials, intermediate, and final products. This not only improves efficiency in quality control and food safety but also reduces response times to potential risks or incidents.

This Special Issue is dedicated to discussing advancements in sustainable, non-thermal food processing methods, for instance, ultrasound, high-pressure processing, cold plasma, pulsed electric fields, UV radiation, and microwave. A special focus is also placed on recent developments in chromatographic and spectroscopic techniques (LC-MS, GC-MS, NMR, FTIR, etc.) as well as rapid testing technologies (PCR, RT-PCR, and NGS). We invite the submission of original research and review articles covering any area described above.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Giancarlo Cravotto**

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

## 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.

## 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))

## Contact Us

---

*Processes* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/processes](http://mdpi.com/journal/processes)  
[processes@mdpi.com](mailto:processes@mdpi.com)  
[X@Processes\\_MDPI](https://twitter.com/Processes_MDPI)