

## Special Issue

# Applications of Plasma Technology in Food and Environment

### Message from the Guest Editors

Plasma-based technology has emerged as an energy-efficient, and environmentally friendly alternative with significant applications in food and environmental sciences. In the food sector, non-thermal plasma technologies can be applied to extend shelflife, improve safety through microbial decontamination, and enhance overall food quality. In environmental applications, thermal and non-thermal plasma technologies are used for water and air purification, pollutant degradation, hazardous waste treatment, energy recovery from organic solid waste, and resource recovery. This Special Issue aims to gather original research articles, reviews, and case studies that present recent advances, challenges, and future perspectives of plasma-assisted processes. Special attention will be given to contributions addressing fundamental mechanisms, innovative applications, optimization strategies, process scale-up, and interdisciplinary approaches that integrate plasma technology in food and environmental fields.

### Guest Editors

Dr. Brenda L. Fina  
Dr. Leandro Prevosto  
Dr. Ezequiel Cejas

### Deadline for manuscript submissions

26 May 2026



## Processes

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