

## Special Issue

# Biogas in the Circular Bioeconomy: Processes, Integration and Applications

### Message from the Guest Editors

This Special Issue on “Biogas in the Circular Bioeconomy: Processes, Integration and Applications” aims to gather contributions that showcase cutting-edge research and practical advancements in biogas systems, with emphasis on the operation, optimization and sustainability of production and upgrading processes. Both experimental and modeling studies are welcome, particularly those that contribute to improving efficiency, reducing costs and enhancing environmental performance. Topics include, but are not limited to:

- Development and optimization of anaerobic digestion and co-digestion processes
- Novel biogas upgrading and intensification technologies (e.g., additives, alteration of process configurations and membranes)
- Microbial ecology and metabolic engineering for enhanced biogas yield
- Integration of biogas with renewable energy systems and bio-refineries
- Digitalization, modeling, simulation and machine learning in biogas processes
- Techno-economic, environmental and life cycle assessment of biogas systems
- Policy, market and deployment perspectives supporting large-scale biogas utilization.

### Guest Editors

Dr. Elsayed Elbeshbishy

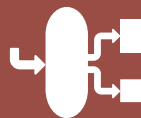
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### Deadline for manuscript submissions

20 May 2026



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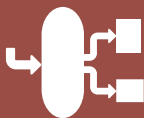


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