

# Special Issue

## Biotechnological Energy Conversion Technology: New Advances in Biosolids Management and Wastewater Treatment

### Message from the Guest Editors

This Special Issue will present and consolidate recent advances in biotechnological conversion technologies, focusing on wastewater treatment and biosolid management, particularly for energy production, volume reduction, resource recovery (carbon, nutrients), contaminant destruction, and char/agri-ash generation. Topics of interest include, but are not limited to, the following:

- The removal, degradation, transformation, and destruction of contaminants of emerging concern that are typical of wastewater and biosolid streams
- Thermal treatments, such as hydrothermal carbonisation, supercritical water oxidation of biosolids for material and energy production;
- Sewage sludge stabilisation methods;
- *In situ* applications of biosolid-derived char in wastewater treatment, biomethane generation, biogas upgrading, and gaseous pollutant removal;
- Energy production from biogas, biochar, syngas, and bio-oil obtained from the biological-thermal treatment of wastewater sludges;

### Guest Editors

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### Deadline for manuscript submissions

5 March 2026



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## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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