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# **Advances in Biomass Waste Gasification**

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Deadline for manuscript submissions: closed (10 December 2022)



## **Message from the Guest Editors**

### Dear Colleagues,

In the last several decades, global warming, climate change issues, national energy security, and energy dependency issues have led to the need for alternatives to fossil fuels. Biomass, the fourth largest source of energy in the world after oil, coal, and natural gas, seems to be one of the most favorable renewable energy sources to replace fossil fuels. This Special Issue invites papers that consider the various aspects of converting biomass waste gasification to valuable products, covering all the technical chains from biomass production to residue management and, in particular, experimental and simulation works that investigate new processes and technologies at industrial, pilot, and bench scales.

Topics of interests include, but are not restricted to:

- Advanced biomass pre-treatment (e.g., hydrothermal carbonization, torrefaction);
- Advanced cleaning and conditioning (e.g., plasmaenhanced catalytic oxidation, membranes);
- Advanced/integrated electrical/thermal energy, biofuel, bioplastic, biomaterials production (e.g., chemical looping gasification; carbon capture, storage, and use; power to gas);
- Advanced residues management;
- Life cycle assessment.



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# **Editor-in-Chief**

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### Message from the Editor-in-Chief

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