

Call for Papers

Special Issue on **Recent Advances in Fundamentals and Applications of Biomass Energy**

Biomass energy is the energy that is derived from organic matter of plants and animals. In a world seeking solutions to its economy, energy, and environment "trilemma" biomass energy can be a great alternative fuel source. The applications of biomass energy can effectively narrow the increasing energy gap and efficiently improve the worsening environmental situation due to its advantages of renewable, abundantly available, carbon-neutral, and low NO_x and SO_x. All efficient applications of biomass energy are dependent principally on a good understanding of the fundamentals of resources, processes, and systems. This special issue is focused on the fundamentals and applications of biomass energy with respect to the recent advances in resource characteristics, conversion processes, reaction properties, and utilization systems of biomass energy.

Topics covered with respect to biomass energy problems but are not limited to:

- Properties of biomass fuels, bio-gas, bio-oil, bio-char, bio-chemicals,
- Combustion properties of biomass fuels and products,
- Burning speed, flammability limit, autoignition conditions,
- Gasification characteristics of biomass fuels and products,
- Utilization of biomass fuels and products,
- Experimental and simulation of biomass conversion technologies/processes/systems,
- Optimization design for biomass conversion processes/systems,
- Up-grading of biomass fuels and products.

Manuscripts are due **July 1st, 2017** and publication of the Special Issue is scheduled for **April 2018**.

Submission Guidelines

All submissions should be prepared in accordance with ASME Author Guidelines <https://journaltool.asme.org/home/AuthorResources.cfm>, and be submitted through the ASME Journal Webpage <https://journaltool.asme.org/Authors/Author/Login?returnUrl=%2FAuthors%2FAuthor%2FSubmit%2FDetails%3FjournalID%3D6>, select the journal "*Journal of Energy Resources Technology*", and then select the special issue "**04/2018-BioEnergy**". Please note the 9000 word limit (9 journal-page limit) for Research Papers and 2500 word limit for Technical Briefs. All the manuscripts will undergo the standard JERT peer-review process by the Guest Editors and the peer-review referees. Please indicate in the "Author Comments" accompanying your manuscript that you would like to have the paper considered for the special issue on *Recent Advances in Fundamentals and Applications of Biomass Energy*.

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