Special Issue

Research on High-Temperature Thermochemical Conversion of Biomass

Message from the Guest Editors

In the current context of global carbon dioxide emission reduction, biomass will occupy an important position in the future energy system. Biomass thermal conversion, as the most common biomass energy utilization method, has garnered significant research attention. However, a significant challenge exists in various biomass thermal conversion processes: the tar problem. Biomass high-temperature thermal conversion technology is an emerging technical path that can potentially solve this problem from the root, and thus is expected to play an important role in the future utilization of biomass energy. This Special Issue will include, but will not be limited to, the following topics:

- Biomass high-temperature thermochemical conversion processes;
- The development of models or simulations of high-temperature thermochemical conversion of biomass;
- Design, analysis, control, optimization, and operation of a biomass high-temperature thermochemical conversion equipment or energy system;
- Techno-economic assessment studies for optimization of the biomass high-temperature thermochemical conversion technology.

Guest Editors

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