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Thermo Fluid Conversion of Biomass

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Deadline for manuscript submissions:
closed (31 May 2018)

Message from the Guest Editors

This Special Issue covers emerging topics such as the thermochemical conversion of biomass and organic waste in fluidized media, such as water, supercritical fluids, ionic liquids, liquid and gaseous solvents, and liquid phase catalysis. Transforming the huge quantities of residual biomass and organic waste from agriculture and industry, as well as municipal solid waste and sewage sludge, represents a fundamental step towards a zero-waste circular economy. Upgrading these carbonaceous waste streams to renewable energy and advanced materials mitigates their environmental impacts and lowers our dependence on nonrenewable fuels.

Topics of interest for publication include, but are not limited to:

- Hydrothermal conversion
- Hydrothermal carbonization (HTC)
- Hydrothermal liquefaction (HTL)
- Supercritical water gasification (SCWG)
- Supercritical water oxidation (SCWO)
- Wet oxidation (oxidation in liquid water; WO)
- Thermal hydrolysis
- Conversion in liquid solvents/ionic liquids

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Message from the Editor-in-Chief

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