Special Issue

Advanced Biomass Materials: Energy Conversion and Green Chemistry

Message from the Guest Editor

Original research articles and review articles focusing on the characterization, fractionation and energy conversion of lignocellulose as well as removal applications of lignocellulosic materials are welcome. The topical interests include, but are not limited to, the following areas:

- Bioenergy and biorefinery of biobased materials resulting from pilot, demonstration, and industrial plants.
- Novel and high-efficiency pretreatment methods for improving the degradation of lignocelluloses.
- Structural elucidation of native and fractionated biomass such as cellulose, hemicelluloses, and lignin.
- Chemocatalytic depolymerization of biomass.
- Upgrading of lignin to fuels and chemicals.
- Lignocellulose-based materials.
- Process simulation of integrated biorefinery process and techno-economic analysis.
- LCA of greenhouse gas reduction for biobased energy systems.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 January 2023)

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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