



Advanced Biomass Materials: Energy Conversion and Green Chemistry

Guest Editor:

Dr. Mingqiang Zhu

College of Mechanical and
Electronic Engineering,
Northwest A&F University,
Yangling 712100, China

Deadline for manuscript
submissions:

closed (20 January 2023)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)