Special Issue

Advancement of Catalytic Materials in Biomass Conversion and Green Chemistry

Message from the Guest Editors

The simultaneous depletion of fossil resources and increasing demand of sources for the production of energy, fuels, materials, and chemicals account for the significant interest in investigations in the field of alternative methods of generating valuable compounds. Green chemistry as well and biomass transformations in particular represent ways to target sustainable development, safety, and overcome environmental problems caused by the processing of traditional non-renewable sources. It should be emphasized that catalysis does play an important role in the development of technologies of biomass treatment. The main directions of this Special Issue are:

- Biomass characterization and isolation of the main components;
- Catalytic, physical, and biotechnological approaches and solutions in biomass valorization;
- New approaches to clean and resource-saving energy;
- New materials and technologies necessary to solve various environmental problems based on biomass (poly-, di- and monosaccharides, lignins, lignocellulose, glycerol, etc.)

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Deadline for manuscript submissions

closed (20 September 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/149239

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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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