Special Issue

Synthesis and Application of Biomass-Based Materials

Message from the Guest Editor

Due to the potential applications in energy storage, catalysis, adsorption, and gas separation and storage, biomass-based materials are considered as ideal candidates for resolving many of the practical issues encountered. An important advantage of biomass-based materials is that they have abundant surface functional groups, which being highly modifiable act as a platform for the synthesis of various functionalized carbon materials. In addition, biomass-based materials are also rich in some minerals. These properties allow biomass-based materials to be applied as an adsorbent, catalyst, and catalyst support. More importantly, the easily tuned surface functionality and porosity make biomass-based material a promising platform for the synthesis of many other functional materials.

The aim of this Special Issue is to advance and disseminate knowledge in all the related areas of biomass conversion and utilization, especially the synthesis and application of biomass-based materials. Of course, the articles presented in this Special Issue cover all areas of biomass conversion and are not limited to the above areas.

Guest Editor

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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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