Special Issue

Application of Biomass-Derived Carbonaceous Materials in Energy and Environment

Message from the Guest Editor

Biomass is a renewable and sustainable carbonaceous material precursor, with wide availability and low cost, which can be an alternative to fossil resources. Biomass carbonaceous materials can be obtained by pyrolysis, hydrothermal carbonization, and other physicochemical treatments of biomass, such as lignocellulosic biomass (woods, grasses, crop residues, etc.) and protein-rich biomass or organic wastes (sewage sludge, algae, manure, food waste, etc.). The as-produced carbonaceous materials have attracted increasing interest in the energy and environment fields because of their promising adsorption, capture, and catalysis properties. The engineering, application, and evaluation of the biomass carbonaceous materials for improved properties, enhanced application, and decreased economic and environmental costs are becoming the top priorities in promoting their industrialization and commercialization, achieving the effective utilization of biomass.

Guest Editor

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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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