

Special Issue

Innovative Utilization of Biomass for Sustainable Energy Production

Message from the Guest Editor

This Special Issue explores groundbreaking research and advancements in converting biomass, particularly agro-waste, into sustainable energy and high-value products. Emphasizing innovative technologies and methodologies, it covers topics such as advanced biomass-conversion techniques, biofuel production, thermochemical and biochemical processes, and the integration of biomass energy systems with other renewables. Additionally, it addresses environmental impact assessments, supply chain innovations, and economic perspectives. By highlighting these areas, this Special Issue aims to foster interdisciplinary approaches and practical applications that contribute significantly to sustainable energy solutions and the valorization of biomass. Please find the special issue website below for more information:

https://www.mdpi.com/journal/materials/special_issues/02F08291UH

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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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