Special Issue

Biomass Resources and Bio-Energy Potential—2nd Edition

Message from the Guest Editor

Conventional fossil fuel is vital in global transportation and power generation systems due to its availability, combustion performance, and accessibility. However, the combustion of fossil fuel generates harmful emissions (e.g., CO2, SO2 and NOx etc.), and pollutes the environment. Furthermore, depletion of reservation and the increased cost of and demand for fossil fuel have propelled the world energy industries to seek alternative and sustainable replacements. As a result, the entire world is striving to find viable renewable energy resources. Biofuel is the most promising renewable energy source for use in combustion engines and power generation systems. Diesel fuel blends containing up to 20% biodiesel are currently used in diesel engines without any modification. However, several critical issues exist in this field, including feedstock availability, production technology, energy yield, cost, storage stability, fuel properties, corrosivity, materials compatibility, etc. A considerable number of studies on these topics have been conducted both experimentally and numerically. The present Special Issue is dedicated to papers addressing these issues.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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