Special Issue

Biomass by Low-Temperature Pyrolysis

Message from the Guest Editors

Biomass is one of the largest and most sustainable energy sources. Bioenergy recovery has become one of the key strategies. A variety of lignocellulosic biomass types, including woody biomass, dedicated energy crops, are often region-specific. Moreover, it is expected to produce more renewable energy by reutilization of biowaste. Processing of biomass in its natural form for energetic purposes by direct combustion with immediate heat utilization has very low efficiency. Thus, a full utilization of renewable energy sources and practical application of recycled bioenergy is still under exploration. Pyrolysis of biomass, on one hand, has potential to provide fuels that are easier to store or with higher energy density , while on the other hand, it can facilitate the production of value-added chemicals.

Topic: Recent advances in biomass (including biowaste) low-temperature pyrolysis to bioenergy, biobased chemicals, and carbon-rich materials, including the application of such products (e.g., biochar , as an adsorptive media or a catalyst) as well as recent developments in kinetic, thermodynamic and numerical modeling of pyrolysis processes.

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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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