Special Issue

Efficient Utilization of Thermal Energy: Advanced Biomass Combustion Technologies

Message from the Guest Editor

The combustion of biomass is an extremely complicated process in which the phenomena of energy transport depend on chemical phenomena, and boilers together with fuel feeding systems, burners, scrapers, heat exchangers, filters and control systems are complex and advanced devices. Despite this, biomass combustion devices are associated with old and traditional technology. This is probably because they are basically a source of traditional heating and, to a very small extent, they serve the modern cogeneration of electricity and heat. It is the combined heat and power generation that has the potential to become an impulse for the development of biomass combustion. For this to happen, biomass combustion technology must solve several key problems, including dust emission, contamination of the heat transfer surface and a relatively long time to service devices using this type of fuel. As biomass is very diverse, the development of new advanced biomass combustion systems is a task for many research and engineering teams from around the world.

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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