Special Issue

Biomass Torrefaction and Its Applications in Low-Carbon Industry

Message from the Guest Editors

This Special Issue focuses on different biomass torrefaction processes and their applications in low-carbon demand industry for the production of carbonized solid biofuels, biochar as an additive for organic fertilizers, biosorbent production for chemical industry, as well as thermo-chemical process production and it being upgraded to obtain new bio-products for special dedication (functional application) purposes such as, for example, activated carbon for deodorization in biogas plants. Topics of interest for publication include, but are not limited to, the following:

- Biomass torrefaction technologies;
- Biomass torrefaction modeling: lab, semi-industrial scale, full-scale scenarios;
- Kinetics of biomass torrefaction process;
- Techno-economical assessment of biomass torrefaction plants;
- Emission problems related to biomass torrefaction product storage;
- Safety aspects of biomass torrefaction process in semi and industrial scale;
- Environmental evaluation of biomass torrefaction process;
- Optimization of biofuel production processes;
- Impact of raw material processing on product parameters;
- LCA, SLCA analysis of biomass torrefaction plants.

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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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