Special Issue

Pyrolysis Energy Conversion Systems

Message from the Guest Editor

Pyrolysis is one of the thermochemical technologies for converting biomass into energy and chemical products consisting of solid biochar, pyrolytic gas and liquid bio-oil. Bio-char can be utilised in various industrial processes whereas syngas from biomass pyrolysis could be a renewable alternative fuel for internal combustion engines and industrial combustion processes. Bio-oil has the potential to be used as a fuel oil substitute and as a transportation fuel replacing the conventional diesel-fuel, although more research is needed in order to improve the marketability and to develop products with high stability and high quality. This special issue would be a step in fulfilling the gap in knowledge in the following thematic fields:

- Pyrolysis systems and kinetics modeling
- Design and optimization of pyrolysis reactors
- Pyrolysis products and upgrading
- Torrefaction and modelling of the process

Guest Editor

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Deadline for manuscript submissions

closed (25 November 2021)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/72666

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Message from the Editor-in-Chief

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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