

Special Issue

State-of-the-Art of Sustainable Biofuels from Waste and Biomass in Brazil

Message from the Guest Editors

The purpose of this Special Issue is to present a collection of scientific manuscripts focusing the recent advances in the thermochemical conversion of biomass and waste into liquid and solid energy fuels and chemicals in Brazil. Topics of interest include, but are not limited to: biofuels production processes (pyrolysis, catalytic cracking, homogeneous and heterogeneous transesterification); biosolids and chemicals production processes (pyrolysis, hydrothermal carbonization and liquefaction); catalysts for the production of biofuels and chemicals by thermochemical conversion of biomass residues; simulation of bio-oil and biofuels fractionation and deoxygenation (distillation, liquid–liquid extraction, absorption, adsorption, etc.) using chemical process simulators; biomass pretreatment and activation to produce bio-oils and bio-adsorbents by thermochemical processes (pyrolysis, hydrothermal carbonization and liquefaction); thermochemical conversion of municipal household solid wastes and sewage sludge; thermochemical conversion of plastics and polymeric residues; techno-economic analysis of biofuels production processes.

Guest Editors

Prof. Dr. Nélío Teixeira Machado

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Deadline for manuscript submissions

closed (24 August 2024)



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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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