Special Issue

HTL Biocrude Production, Optimization, and Upgrading

Message from the Guest Editors

Biomass is a renewable resource and viewed as one of the most important potential. Its utilization has received great attention due to environmental considerations & shortage of energy supplies. Hydrothermal liquefaction (T= 250–450 □C, P= 100-350 bar) is considered as a promising pathway and enables a feedstock-flexible conversion of non-feed biomass into liquid biofuel. Biocrude obtained is highly complex mixture, with challenging difference of containing oxygenated hydrocarbons and heteroatoms to a higher degree. Properties and yield of HTL biocrudes depends on process parameters like temperature, reaction time, catalyst, and biomass type. The purpose is to obtain the highest yield & quality of biocrude, and to realize the commercialization of biocrude production. Therefore, optimization of process parameters should be studied extensively. This Special Issue aims at encouraging researchers to address the appropriate solutions to overcome the issues regarding process optimization & detailed biocrude physiochemical analysis in upgrading perspective.

Guest Editors

Prof. Saqib Sohail Toor

Department of Energy Technology, Aalborg University, 9220 Aalborg, Denmark

Dr. Kamaldeep Sharma

Department of Energy Technology, Aalborg University, 9220 Aalborg, Denmark

Deadline for manuscript submissions

closed (20 December 2021)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/49457

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)

MDPI