

Special Issue

Electrocatalytic Processing of Biomass for Energy Conversion and Storage

Message from the Guest Editors

Given the surge in interest for sustainable and resilient energy systems, we are publishing a Special Issue dedicated to combining fuel cell technology with conversion of organic compounds. This issue will focus on using biomass in fuel cells to generate power, or in electrolysis cells to generate hydrogen, as well as transforming biomass into products with fuel cell technology. The issue will include reviews and original research describing recent advances in catalyst and process development, catalytic fuel cells and electrolyzers, microbial fuel cells and electrolyzers, computational studies, and technoeconomic analysis.

Guest Editors

Dr. Jamie Holladay

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Dr. Juan Lopez-Ruiz

Deadline for manuscript submissions

closed (30 April 2021)



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

Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).