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Recent Advances in Biorefinery Approaches for Sustainable Development

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Deadline for manuscript submissions:

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Message from the Guest Editors

Biorefinery is a sustainable process that converts biomass into energy and bio-based products. In order to advance sustainable development, biorefinery approaches must include economic and environment aspects. Technoeconomic and environmental analysis tools have been used to assess the sustainability of different biorefinery processes. Recent developments in artificial intelligence and machine learning techniques have provided new opportunities for biorefinery approaches to parameter optimization and enabled biofuel production prediction. The comprehensive analysis of biorefineries is similar to the life cycle assessment, which is a tool helping to ensure the sustainability of biorefineries. Sustainable biorefinery approaches contibute to establishing а bioeconomy.

This Special Issue covers the following areas:

- Application of AI and ML in biorefinery;
- System analysis and biorefiner;
- Biorefinery with carbon capture;
- Life cycle assessment;
- Policy analysis of biorefinery;
- Advancements in biorefinery;
- Low-carbon biorefinery and related areas.

We invite you to contribute articles or comprehensive reviews to this Special Issue.









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Editor-in-Chief

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Message from the Editor-in-Chief

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