

Biofuel Research Journal

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Aims and Scope

Biofuel Research Journal (BRJ) is an open access online journal and completely free-of-charge publishes original articles, review articles, case studies, book reviews, short communications, and hypotheses on the fundamentals, applications, processing, and management of biofuels technologies.

The journal's aim is to advance and disseminate knowledge in all the biofuel-related areas of biodiesel, bioethanol, biobutanol, biogas, biomass, algae, bioreactions, bioreactors, membrane-bioreactors, fermentation, biorefinery (e.g. membrane separation technology), bioprocess, applied microbiology, combustion, and bioresource technologies associated with conversion or production of biofuels. Moreover, novel and integrated biofuel processing and hybrid systems as well as energy audit for biofuel production plants are of interest. The journal also seeks to publish articles with a focus on carbon footprint analysis, strategies for limiting green house gas (GHG) emissions, life cycle assessment (LCA) and exergy analysis of biofuel production/application pathways, compliance with the international standards (such as PAS 2050:2011 and ISO 14040:2006), technoeconomic analysis of biofuel production/application, and promotion of biofuel applications in the developing world for indigenous development.

BRJ calls for papers that cover the following fields:

Biofuels: biodiesel, bioethanol, biobutanol, biogas, etc.

Biofuels production, modeling and economics

Bioprocesses and bioproducts: Bioreactions, biocatalysis, bioreactors, membrane-bioreactors, modeling and optimization, scale-up, supercritical technology, ionic liquids, and fermentations.

Biomass and feedstock utilization: Bioconversion of agro-industrial residues.

Biorefinery: Membrane separation technology, adsorption, solvent-extraction, etc.

Environmental protection: Simultaneous biological waste treatment and biofuels production, clean development mechanism.

Thermochemical conversion of biomass: Combustion, pyrolysis, gasification, catalysis.

Algal biofuels and energy crops including energy crops genetic engineering

Carbon foot-printing analysis and strategies for limiting green house gas (GHG) emissions: Life cycle assessment (LCA) analysis of biofuel production/application pathways, Exergy analysis of biofuel production/application pathways, and Compliance with the international standards (such as PAS 2050:2011 and ISO 14040:2006).

Impacts of biofuels production and consumption on climate change.

BRJ also covers the following fields:

- Process scale-up and economic analysis
- Process integration and zero discharge strategies
- Resource recovery
- Water-energy balance improvements
- Energy audit for biofuels production plants
- Biofuel applications in the developing world for indigenous development
- Technoeconomic analysis of biofuel production/application

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