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/bioproducts technologies.

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

BRJ calls for papers that cover the following fields:

Bioproducts
Biofuels: biodiesel, bioethanol, biobuthanol, biogas, etc.
Biofuels/bioproducts 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/bioproducts production, clean development mechanism.
Thermochemical conversion of biomass: Combustion, pyrolysis, gasification, catalysis.
Algal biofuels and energy crops including energy crops genetic engineering
Application of artificial photosynthesis for biofuels/bioproducts production
Carbon foot-printing analysis and strategies for limiting greenhouse gas (GHG) emissions: Life cycle assessment (LCA) analysis of biofuels/bioproducts production/application pathways and compliance with the international standards (such as PAS 2050:2011 and ISO 14040:2006).
Exergy analysis of production/application pathways of biofuels/bioproducts
Technoeconomic analysis of production/application of biofuels/bioproducts
Impacts of production and consumption of biofuels/bioproducts on climate change
Futuristic pathways for biofuels/bioproducts production
Applications of biofuels/bioproducts in the developing world for indigenous development

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/bioproducts production plants
- Biofuels & bioproducts in circular economy
- Biofuels & bioproducts finance

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