

Special Issue on Bioenergy and Biofuel for Future

CALL FOR PAPERS

Biomass for renewable/sustainable energy has heavily contributed towards upliftment of energy, environment, expansion, and economics of a country. It possesses tremendous potential to prevent the carbon emissions from entering the atmosphere, simply by switching from petroleum based fuel to bio-based fuel as our primary source of transportation fuel. It consists of varied organic matter that originates from green plants and microalgae and transforms sunlight into biological material through the process of photosynthesis. Different resources such as forestry, agricultural, and aquatic sources have been vigorously explored as the feedstock for the production of various types of biofuels such as bioethanol, biogas, biohydrogen, biodiesel, and bio-oil. The use of biofuels has helped us to mitigate climate change, reduce the dependence on fossil fuels, and decrease risks to life and land and has provided a safe and competitive energy source.

Authors are invited to submit their original research articles and review paper for possible inclusion in a special issue of this journal. We are interested in capturing some of the expertise of you and your colleagues in the area of biofuels.

Potential topics include but are not limited to the following:

- ▶ Hydrogen and fuel cell research
- ▶ Bioreactor systems for biofuel and bioelectricity
- ▶ Microalgae-based biofuel production
- ▶ Microbial fuel cells
- ▶ Biodiesel, bioethanol, and biomethane production
- ▶ Biofuels of third generation
- ▶ Perspectives of biodiesel, bioethanol, and biomethane
- ▶ Biomethane in the transport sector
- ▶ Bioreactor systems for biofuel and bioelectricity
- ▶ Biofuel trade
- ▶ Life cycle assessment of biofuel production
- ▶ Biofuel and bioenergy policy formation
- ▶ Enzymatic hydrolysis of biomass
- ▶ Application of nanotechnology and nanomaterials for bioenergy and biofuels production
- ▶ Genetic and metabolic engineering for biofuels
- ▶ Technology for separation of biomass
- ▶ Green supply chain for biofuels
- ▶ Bioenergy from municipal solid wastes and landfills
- ▶ Bioenergy production from food waste

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/scientifica/biotechnology/biofuel/>.

Lead Guest Editor

Qiang Jin, Shanghai Jiao Tong University, Shanghai, China
qiang.jin@outlook.com

Guest Editors

Ravinder Malik, University of California Los Angeles, Los Angeles, USA
ravindermalik@ucla.edu

Jian Lu, Yantai Institute of Coastal Zone Research, Laishan Qu, China
jlu@yic.ac.cn

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