

Special Issue

Bioenergy, Land Use and Ecology Protection

Message from the Guest Editors

The promotion of renewable energy is considered one of the most effective strategies to cope with climate change. In terms of greenhouse gas (GHG) emission saving, renewable energies are superior when compared to traditional energies (e.g., fossil fuel, coal). Among different kinds of renewable energies, bioenergy has attracted public attention during the worldwide energy transition. Over the last decade, we have witnessed a rapid growth in bioenergy production, driven by social and economic factors. However, this development has also resulted in significant impacts on land use patterns and the regional environment. In particular, the increasing demand for agricultural-based feedstock reflected in the changing agricultural landscape has led to significant biodiversity loss, ecosystem service decline, and food security. Given the complex nature of bioenergy systems, the impacts show high spatial and temporal heterogeneities and require both short- and long-term evaluation. Thus, the sustainability of bioenergy production has been the subject of long-term debate.

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