



Environmental Sustainability of Renewable Gas Fuels for Energy and Transportation

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Message from the Guest Editor

Climate change mitigation is a global challenge to be addressed by means of fossil fuels' substitution with renewable energy sources. On the other hand, the health of the population is still threatened by polluting emissions from conventional fuels, such as oil and coal. In the upcoming decade, we are therefore facing a double challenge: the global reduction of greenhouse gases and the local improvement of air quality. With this regard, we can no longer ignore the emissions from solid biomass, wood pellets, liquid biofuels, and municipal waste incineration. In this framework, it is expected that renewable gas fuels will play a major role, both in the energy and in the transportation sector. Examples of renewable gas fuels are biogas, biomethane, syngas, biohydrogen, and H₂ and CH₄ from renewable electricity. Hence, renewable gas fuels can be obtained from agricultural biomass, municipal waste, sewage sludge, as well as from other RES, promoting energy security and circular economy.





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