Special Issue

Sustainable Chemical Technologies for Industrial Effluent Treatment, Biomass-to-Bioenergy Conversion, and Process Intensification: A Greener Future

Message from the Guest Editors

1. Sustainable chemical technologies applied to industrial wastewater treatment; 2. Development or enhancement of separation technologies using process intensification strategies; 3. Case studies on intensified separation technologies for efficient and eco-friendly production processes; 4. Strategies for the carbon sequestration and mitigation of greenhouse gas emissions via adopting third-generation biofuels; 5. Case studies on thermochemical technologies for biomass-to-bioenergy conversion; 6. Valorization of agro-industrial residues, forest residues, municipal solid waste, food processing residues, and animal manure for bioenergy and renewable chemicals; 7. Innovations and recent advancements in catalysts employed for energy and environmental applications; 8. Renewable chemicals derived from biomass pyrolysis and their prospects for use in the chemical industry and transportation fuel sector; 9. Life cycle assessment (LCA) of conversion processes for the sustainable production of bioenergy and renewable chemicals from biomass;

Guest Editors

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Deadline for manuscript submissions

closed (17 November 2024)

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Editor-in-Chief

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