



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

Guest Editors:

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Deadline for manuscript  
submissions:

**17 November 2024**

### **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;





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