

Special Issue

Sustainable Pathways in Chemical Process Engineering: Innovations, Optimization and Circular Strategies

Message from the Guest Editors

Topics of interest include, but are not limited to, the following:

- **Green process design:** Innovations in solvent selection, catalysis, and reaction engineering for sustainable chemical production.
- **Biofuels and bioproducts:** Process development for bioethanol, biodiesel, biohydrogen, and advanced biofuels.
- **Waste minimization and valorization:** Novel approaches for resource recovery and circular economy strategies.
- **Carbon capture, utilization, and storage (CCUS):** Process innovations for reducing greenhouse gas emissions.
- **Sustainable energy integration:** Renewable energy applications in chemical and biofuel manufacturing.
- **Techno-economic and life cycle assessments:** Quantitative evaluation of environmental and economic sustainability.
- **Process modeling and optimization:** Simulation-based approaches for improving efficiency and sustainability.

Guest Editors

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