

Special Issue

Process Modeling, Simulation, and Optimization in Chemical Engineering

Message from the Guest Editors

Chemical engineering is undergoing an important transformation as advances in process modeling, simulation and optimization address the complex challenges of sustainability, efficiency and industrial competitiveness. This Special Issue on “Process Modeling, Simulation, and Optimization in Chemical Engineering” aims to bring together recent research that uses these tools to improve process design, reduce environmental impact, and maximize operational efficiency. Topics of interest include, but are not limited to, the following:

- Development of new models for chemical processes.
- Advanced simulation techniques for process analysis and design.
- Optimization of chemical processes to increase efficiency and reduce emissions.
- Application of artificial intelligence and machine learning for process simulation and optimization.
- Techno-economic analysis of emerging chemical engineering processes.
- Case studies on modeling and optimization implementation in industry.
- Integration of renewable energy sources in chemical processes.

Guest Editors

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Message from the Editor-in-Chief

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Editor-in-Chief

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