Special Issue

Reactive Distillation Processes

Message from the Guest Editor

Reactive distillation technology is vital for producing biofuels, pharmaceuticals, electrolyte solutions, and fine chemicals. Recently, studies on reactive distillation (RD) have concentrated on enhancing the efficiency and sustainability of chemical processes. This involves developing advanced catalysts, integrating membrane separation or adsorption into hybrid RD systems to reduce their energy consumption, and optimizing reaction and separation processes for better performance. Additionally, there has been a focus on computational modeling and simulation techniques to predict RD performance.

This Special Issue aims to address recent theoretical and experimental developments of thin film properties and related processes. Topics include, but are not limited to, the following: Reactive dividing wall columns;
Catalytic distillation;
Membrane-assisted reactive distillation;
Hybrid distillation techniques;
Process intensification;
Energy efficiency and environmental impact;
Computational modeling and simulation.

Guest Editor

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Editor-in-Chief

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