

## Special Issue

# Supercritical Fluid Technology and Its Applications in Separation Processes

### Message from the Guest Editors

This Special Issue is dedicated to exploring the advancements and applications of supercritical fluid technology, an area that continues to revolutionize separation and transformation processes in industry. Supercritical fluids offer innovative and sustainable solutions to various industrial challenges, owing to their unique properties, which combine the characteristics of liquids and gases.

- The scope of this Special Issue covers topics such as the extraction of natural products using supercritical fluids. We also explored the application of supercritical water in gasification and oxidation processes, offering new perspectives for waste treatment and clean energy generation. Another focus is the study of the phase equilibrium in pressurized systems with supercritical fluids, which is essential for developing more efficient processes.
- By combining cutting-edge research and case studies, this Special Issue aims to provide a comprehensive and updated view of the potential of supercritical fluids, serving as a valuable resource for researchers and industry professionals interested in exploring and applying this innovative technology.

### Guest Editors

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### Deadline for manuscript submissions

closed (25 July 2025)



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