Special Issue

Green and Efficient Separation and Extraction of Salt Lake Resources

Message from the Guest Editors

Salt lakes are invaluable repositories of multi-ionic and multi-component inorganic salt resources, rich in elements such as potassium, lithium, boron, rubidium and cesium. The key scientific and technological challenges in efficient separation and extraction techniques have become pivotal for maximizing resource utilization. This Special Issue aims to highlight breakthroughs and innovations in the green and efficient separation and extraction of salt lake resources. We seek contributions that report on the latest advancements in materials, mechanisms and processes in the adsorption, extraction, membrane technologies, electrochemistry and other relevant techniques for brine utilization. Our goal is to provide valuable insights and methods for the green and efficient development of salt lake resources. Therefore, we cordially invite you to contribute your research articles, communications or reviews to this Special Issue. Your contribution will play a significant role in advancing this crucial field and offering insights into the efficient utilization of salt lake resources.

Guest Editors

Prof. Dr. Xiushen Ye

Prof. Dr. Dandan Gao

Prof. Dr. Shiqiang Wang

Deadline for manuscript submissions

closed (20 June 2025)

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Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

Editor-in-Chief

Prof. Dr. Frank L. Dorman
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