Special Issue

Advanced Separation Media and Technologies for Biomolecules

Message from the Guest Editor

Efficient separation and purification of biomolecules constitute critical steps in biopharmaceutical development, diagnostics, and therapeutic applications. This Special Issue will focus on cutting-edge advancements in separation media and technologies, encompassing key areas such as novel separation media development, protein separation, antibody purification, nucleic acid extraction, exosome isolation, and virus-like particle (VLP) enrichment. We particularly welcome contributions on innovative separation media preparation and emerging separation methodologies for macromolecules, including liquid chromatography, mass spectrometry, solid-phase extraction (SPE), and solid-phase microextraction (SPME). Manuscripts incorporating computational modeling to optimize separation strategies are also strongly encouraged. This Special Issue aims to serve as a platform for researchers to exchange ideas on driving innovation in separation technologies through materials science, engineering approaches, and data analytics, thereby enhancing the purity, yield, and scalable production of biological products.

Guest Editor

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Message from the Editor-in-Chief

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

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