Special Issue

Separation Techniques in Environmental Analysis

Message from the Guest Editors

This Special Issue of Separations, “Separation Techniques in Environmental Analysis”, brings together methodological advances aimed at identifying, fractionating, and quantifying pollutants at trace and ultra-trace levels in complex environmental matrices (surface and drinking waters, effluents, soils, sediments, air, and biota). The scope encompasses separation techniques coupled with modern, high-resolution detectors (LC-MS/MS, GC-MS, HRMS, and ICP-MS), as well as contemporary sample preparation strategies (SPE, µSPE, SPME/Arrow, QuEChERS, DLLME, SBSE, passive sampling, and green microextractions). These approaches have been crucial for monitoring emerging contaminants (PFAS, micro/nanoplastics, pharmaceuticals, pesticides, PAHs, metals, and nanomaterials). Contributions integrating separation, sample preparation, and detection with regulatory applications, environmental forensics, risk assessment, treatment efficiency control, and long-term surveillance are especially welcome. We invite the submission of research articles and critical reviews presenting innovative methodologies with a meaningful impact on environmental management and decision-making.

Guest Editors

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About the Journal

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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