Special Issue

Advances in QuEChERS-Based Methodologies for Multiresidue Analysis

Message from the Guest Editors

Originally developed for pesticide residue analysis in food, the QuEChERS (Quick, Easy, Cheap, Effective, Rugged, Safe) methodology has become a widely adopted tool for multiresidue analysis in complex matrices. Its adaptability, simplicity and cost-efficiency make it a cornerstone in sample preparation, enabling reliable detection of pesticides, biocides, veterinary drugs, and persistent organic pollutants. Coupled with LC-MS/MS and GC-MS/MS, QuEChERS enables comprehensive, high-throughput monitoring in food, environmental, agricultural, and biological samples. We especially welcome contributions addressing the following topics:

- Application to emerging contaminants and complex matrices;
- Integration with advanced detection systems (e.g., LC-MS/MS, GC-MS/MS);
- Comparative studies between QuEChERS and alternative extraction methods;
- Validation, standardization, and regulatory aspects;
- Green chemistry approaches and miniaturization strategies.

This Special Issue provides a timely platform to share innovations that reinforce the value of QuEChERS in modern analytical science.

Guest Editors

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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