Special Issue

Development of Analytical Methodologies for Selective Extraction, Separation, Identification, and Purification of Valuable Compounds

Message from the Guest Editors

The main focus of this Special Issue is to describe the development and optimization of novel analytical methodologies for the selective extraction, separation, identification, and purification of high-added value compounds or fractions from virtually any matrix, such as from chemicals, agriculture, and industrial by-products and wastes; microbial metabolites from fermentation processes by yeasts, molds and bacteria; or compounds from algae and microalgae. Any type of high-added value compound, such as chemicals, food, cosmetics, pharmaceuticals, nutraceuticals, bioenergy (e.g., biofuel, bioethanol, biobutanol, biohydrogen), and biofertilizers will be considered. Likewise, the application of any type of analytical methodology, such as separation techniques (TLC, HPLC, GLC), mass spectrometry (GC-MSn, LC-MSn, HRMS, etc.), and spectroscopy (NMR, NIR, FT-IR, FTIR-PAS) as well as genomics, proteomics, transcriptomics, metabolomics, and lipidomics approaches are also welcome.

Guest Editors

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Deadline for manuscript submissions

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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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