

Special Issue

Food Sustainability: Promising By-Products for Valorization—3rd Edition

Message from the Guest Editors

Food loss and waste are global challenges with economic, environmental, and social impacts. Beyond prevention, valorizing agri-food by-products converts materials often regarded as waste into valuable resources, supporting food security and a circular bioeconomy. According to EU Directive 2008/98/EC, materials with guaranteed further use, essential to production, and legally compliant can be treated as by-products, enabling exploration of underutilized biomass such as lignocellulosic feedstocks and liquid side streams. By-products from plant, algal, and animal sources contain valuable compounds, including polyphenols, pigments, fibers, oils, and non-extractable components. Through fermentation, enzymatic biotransformation, and advanced cell disruption, these materials can yield high-value ingredients for food, feed, pharmaceutical, cosmetic, packaging, and other bio-based applications. This 3rd Edition of the Special Issue invites research and reviews on by-product characterization, bioactivities of derived ingredients, contaminant mitigation, innovative extraction and biorefinery approaches, and novel industrial applications of agri-food side streams.

Guest Editors

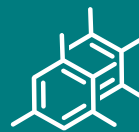
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Message from the Editor-in-Chief

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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