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Green Compounds from Bio-Sources: Characterizations, Innovative Productions and Advanced Technological Applications

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Deadline for manuscript
submissions:

closed (31 December 2019)

Message from the Guest Editors

This Special Issue focuses on the latest developments in the main aspects of the production of green molecules from bio and renewable sources, highlighting all the innovative technologies for their characterization, production, and sustainable application. The ambition of this Special Issue is to publish research work on innovative applications for biomass valorisation, advanced technologies for the production of green by-products and value-added compounds, advanced analytical and characterization techniques of bio-molecules, biorefinery for biomass conversion and CO₂ capture, and extraction technologies and purification treatments, taking into account the concepts of circular economy and green and sustainable impacts. The production of green compounds can also lead to the formation of undesired by-products that have to be removed from the environment in order to avoid any potential contamination; therefore, this Special Issue is also presenting some advanced technologies for by-product treatment.



mdpi.com/si/22605



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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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Journal Rank: JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

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