

Special Issue

Sustainable Methodologies in Organic Electrochemistry

Message from the Guest Editors

Electroorganic synthesis can be traced back to the 19th century with Faraday's hydrolysis of acetic acid to hydrocarbons and Kolbe's electrochemical decarboxylative dimerization. Recently, electrosynthesis has emerged as an increasingly attractive approach for new chemical transformations in a sustainable and green fashion. Here, electrons can be used as traceless redox equivalents to achieve exceptional selectivities, thus avoiding stoichiometric redox reagents and undesired byproduct generation. Furthermore, the renaissance of organic electrosynthesis has enabled the development of mechanistic understandings and commercial electrochemical equipment. Herein, we highlight the unique potential of organic electrosynthesis for sustainable synthesis and catalysis, showcasing key aspects of exceptional selectivities, the synergism with photocatalysis, or dual electrocatalysis, and novel mechanisms in metallaelectrocatalysis until now.

Guest Editors

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As the premier open access journal dedicated to molecular chemistry, now in its 30th 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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