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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Deadline for manuscript submissions

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