

Special Issue

Bioelectrocatalysis, from a Fundamental Understanding of Mechanisms to Synthesis of Molecules

Message from the Guest Editors

Redox reactions are crucial to biology and chemistry as well as for environmental research. This Special Issue focuses on bioelectrochemical methods, addressing different aspects of this important field with the aim of achieving a basic understanding of the biocatalytic processes and their application in bioelectrochemical technology. Our focus is both on fundamental and applied research: Methods based on the electrocatalytic reaction of enzymes and bacteria, both as biofilms and suspended biomass, or methods based on metals, metalloids or organic molecules, and novel electrochemically active microorganisms from extreme environments. Submissions of pilot scale processes and precommercial bioelectrochemical processes are also encouraged.

Guest Editors

Prof. Dr. Petra Hellwig

Dr. Mathieu Etienne

Dr. Enrico Marsili

Deadline for manuscript submissions

closed (31 October 2019)



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About the Journal

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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).