Special Issue

Bioelectrocatalysis: Theory, Methods and Applications

Message from the Guest Editor

Redox reactions are crucial to biology. In this Special Issue, bioeletrocatalytic studies are in focus that address different aspects of this important field, including the basic understanding of catalytic processes, the reactivity of proteins and biomimetic systems, the creation of theoretical and experimental methods and their application in technology. The special issue also involves fundamental and applied research on the bioelectrocatalytic reaction of small molecules (oxygen, NO, CO2, quinones) in biomimetic systems, in large enzymatic ensembles as well as the redox reactivity of bacteria, algae or similar biological systems.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2022)

Molecules

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Impact Factor 4.2
CiteScore 8.6
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mdpi.com/si/80067

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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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