



Enzymatic Bioelectrocatalysis

Guest Editors:

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Deadline for manuscript submissions:

closed (31 March 2021)

Message from the Guest Editors

The Special Issue will focus on fundamentals, developments, and applications of enzyme bioelectrocatalysis. Reviews and original research papers are accepted. Potential topics include but are not limited to:

- Bioengineered enzymes for bioelectrocatalysis;
- Enzyme bioelectrocatalysis enabled high-value products, such as achiral ketone reduction for chiral alcohols and CO₂ and N₂ fixation;
- Enzyme immobilization for improved bioelectrocatalysis;
- Enzymatic biofuel cells;
- Enzymatic biosensors;
- Fundamentals of enzyme bioelectrochemistry;
- Strategies for enzyme stabilization;
- *In situ* and *in operando* techniques for enzyme bioelectrode characterization;
- Cell design for bioelectrocatalytic reaction, such as fluidic cells;
- Biodevices based on enzyme bioelectrocatalysis;
- Enzyme cascade for bioelectrocatalysis;
- Reaction media such as ionic liquid for enzyme bioelectrocatalysis;
- Nanomaterials in enzyme bioelectrocatalysis;
- Theoretical modeling of bioelectrocatalysis

