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# **Development and Applications of Bioelectrochemical Systems**

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Deadline for manuscript submissions:

closed (31 December 2020)

## **Message from the Guest Editors**

This Special Issue aims to present up-to-date information on the recent scientific advances in the fundamental and diverse applications of BES. Authors are invited to submit papers relating to, but not limited to, the following topics: electroactive microorganisms, mechanisms of direct/indirect interspecies electron transfer. the bioelectrochemical reaction (redox potential shift. thermodynamics, and kinetics), electrodes (materials, catalysts, shapes, and arrangements), electrode potential and electrostatic field, BES platforms (MFCs, MDCs, MECs, and other new platforms), modeling and optimization of BES, applications of BES (methane and hydrogen production, biogas upgrading, nitrogen removal, tertiary treatment of wastewater, etc.), and BES design and operation.

### **Kewords:**

- electroactive microorganisms
- direct interspecies electron transfer
- bioelectrochemical reaction
- electrode materials and catalyst
- BES platforms
- microbial electrosynthesis
- modeling and optimization of the BES platform
- applications of BES
- design and operation of BES platforms



Specialsue







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## **Message from the Editor-in-Chief**

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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