

## Development and Applications of Bioelectrochemical Systems

Guest Editors:

**Prof. Dr. Young-Chae Song**

Department of Environmental Engineering, Korea Maritime and Ocean University, 727, Taejong-ro, Yeongdo-gu, Busan 49112, Republic of Korea

**Prof. Dr. Younggy Kim**

Department of Civil Engineering, McMaster University, Hamilton, ON, Canada

**Prof. Dr. Yongtae Ahn**

Department of Energy Engineering, Gyeongnam National University of Science and Technology, Dongjin-ro 33, Jinju, Gyeongnam 52725, Republic of Korea

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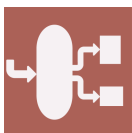
### Message from the Guest Editors

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.

### Keywords:

- 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





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### Prof. Dr. Giancarlo Cravotto

Department of Drug Science and  
Technology, University of Turin,  
Via P. Giuria 9, 10125 Turin, Italy

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Processes Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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