Special Issue

Bio-Batteries

Message from the Guest Editor

The next generation of sustainable and portable power could come from bioengineering and biotechnology. Bio-batteries are energy-conversion devices based on bio-catalytic processes, bio-mimetics, bio-materials, bio-inspired materials, or biologically enhanced components. Bio-batteries have attracted significant research interest and have gained acceptance as a “green” energy alternative of the future, due to their sustainability, renewability, and eco-friendly properties. Despite their vast potential, however, our ability of how to harness the potential of bio-battery technology lags, due to a lack of in-depth understanding of the mechanisms for energy harvesting from biological materials and fundamental factors that maximize biological power-generating capabilities. In this Special Issue, we welcome review articles and original research papers focusing on recent progress and developments in bio-batteries, with further scientific and technological challenges. This Special Issue is also dedicated to new bioenergy-conversion technologies in the framework of emerging and demanding applications.

Guest Editor

Prof. Dr. Seokheun Choi

Department of Electrical & Computer Engineering, State University of New York at Binghamton, Binghamton, NY 13902, USA

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Batteries
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
batteries@mdpi.com

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Editor-in-Chief

Prof. Dr. Karim Zaghib
Department of Chemical and Materials Engineering, Concordia University, Montréal, QC H3G 1M8, Canada

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