Special Issue

Electrochemical Energy Conversion and Storage Processes

Message from the Guest Editors

Electrochemical energy conversion and storage (EECS) processes play a vital role in the conversion, storage, and utilization of sustainable energy from resources to the end users of various devices, such as solar cells, fuel cells, electrolyzers, batteries, and supercapacitors. The predominant mechanism of such devices involves the transfer of chemical energy into electrical energy, or vice versa, by means of redox reactions. EECS processes rely on various components and device aspects, for example, novel electrocatalysts, microstructure, electrode fabrication, electrolyte, system architecture, various supporting components, and long-durability of systems. This Special Issue will bring together high-quality research articles and reviews on various EECS devices and the underlying kinetic processes. Topics include, but are not limited to:

- Various rechargeable batteries;
- Supercapacitors;
- Different fuel cell technologies;
- Electrolyzers;
- Solar cells and solar fuels;
- Electrocatalysis and electrochemical kinetics;
- Self-powered systems—integrated energy conversion and storage devices

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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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