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## Advance in Electrochemical Energy System

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### Message from the Guest Editors

Over the past few decades, electrochemical energy systems, such as the Li-ion battery and the proton exchange membrane (PEM) fuel cell, have evolved at a rapid pace, and they are becoming a major driving force to accomplish the concept of a greener world with smart cities with distributed stationary power generation and e-mobility. Both technologies directly convert the chemical energy generated by electrochemical reaction to electrical energy with high efficiency and zero-emissions of greenhouse gases.

However, technical challenges still remain, particularly related to the performance, durability, safety, and cost reduction that hinder the wide use of these technologies to full-scale utilization in transportation, industrial, and domestic applications.

This Special Issue on Advances in Electrochemical Energy Systems seeks contributions relating to recent advancements in experimental diagnostics and modeling of PEM fuel cells and Li-ion batteries as well as review articles on the state of the art on the two electrochemical energy systems.



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## Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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