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Batteries

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Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

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Aims

Batteries (ISSN 2313-0105) is an international, open access journal of battery technology and materials. It aims to provide a central vehicle for the exchange and dissemination of new ideas, technology and material developments, and research results in the field of battery technology between scientists and engineers throughout the world. The emphasis is placed on original research, both analytical and experimental, covering all aspects of primary and secondary batteries, including chemical batteries and thermal batteries, etc.

Scope

This journal covers all topics related to batteries and electrical energy storage systems.

All electrochemical systems, such as lithium-ion, lead-acid, nickel metal hydride, metal-air, and next-generation batteries, supercapacitors, or fuel cells, are of interest. Papers can be related to applications, for example, portable, electric vehicles, stationary, or photovoltaic, or they can be independent of an application.

Topics of interest include, but are not limited to, the following:

- Fundamental electrochemistry aspects;
- Active and passive materials and components;
- In situ and ex situ material analysis;
- Cell design, module, and pack technology;
- Processing and manufacturing;
- Battery applications;
- Modeling and control;
- Battery performance and testing;
- Charging technologies;
- Battery management system, monitoring, diagnostics, and prognosis;
- Thermal management;
- Hybrid battery systems;
- Safety and reliability;
- Mechanisms and modes of ageing, lifetime;
- Costs and market;
- Fuel cells.

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