



## Application of Nanotechnology in Batteries and Electrochemical Energy Storage

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### Message from the Guest Editors

The use of nanotechnology has unquestioned advantages in the design and preparation of batteries and electrochemical energy storage systems. The main purposes for which nanotechnology is being used in this area are increasing efficiency, in terms of battery capacity or energy density of supercapacitors; reducing material costs, for example, using more readily available carbon-based catalysts or non-precious metals; increasing safety and extending the life cycle; and possibly using recyclable materials at the end of life. Efforts to achieve these goals are mainly directed toward the study and development of nanomaterials and technologies for their production, which should be low-cost and easily scalable to facilitate the widespread production and use of energy storage systems.

In this Special Issue, we invite contributions that explore innovation and originality in **nanotechnology applications in batteries and electrochemical energy storage**. Survey papers and reviews are also welcome.

- batteries
- supercapacitors
- nanomaterials
- catalysts
- electrolytes
- functional properties





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## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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