



## Cutting-Edge Technologies for Renewable Energy Production and Storage

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### **Message from the Guest Editor**

Energy storage is a key topic for the further deployment of renewable energy production, and, therefore, a large research effort is being made to find innovative solutions. Besides battery and other types of electrical storage, electrofuels and bio-electricity may offer suitable alternatives in some specific scenarios. E-fuels are currently being studied for their potential to supply sectors which are strongly dependent on liquid fuels, such as aviation. At the present stage of their development, technical and costs issues are burdens for their application to large-scale infrastructures. In spite of these present challenges, the further development of cutting-edge technologies is one of the pillars for directing the world on the path of a low-carbon future.

This Special Issue is looking for contributions on the following topics: cutting-edge energy conversion technologies and energy storage, technologies integration, e-fuels, pilot and large-scale applications.

**Keywords :** Energy conversion; Energy storage; Technologies integration; E-fuel; Renewable energies; Pilot plants





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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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