

Special Issue

Materials for Thermochemical Energy Storage

Message from the Guest Editor

Nowadays, the reduction of greenhouse gas emissions is a priority in the energy research field and the substitution of fossil fuels with renewable energy sources seems to be crucial. Nevertheless, the mismatching between the solar energy supply and the demand must be overcome using energy storage systems. The storage technology can be based on sensible, latent or thermochemical heat.

Thermochemical energy storage (TCS) uses the reaction enthalpy of reversible chemical reactions and this technology offers higher advantages compared to the others. It provides much higher storage capacities per mass or volume compared to sensible or latent heat storage and can store the heat for infinite time without insulation, also permitting heat transport. In such a scenario, studies on thermochemical storage materials are the priority. The optimized material permits increasing the volumetric energy storage capacity and improving the performance of the storage system. The aim of this Special Issue is to collect the best papers on the development, improvement and enhancement of materials for thermochemical storage.

Guest Editor

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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.

Editor-in-Chief

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