applied sciences

IMPACT FACTOR 2.5

CITESCORE 5.3

an Open Access Journal by MDPI

Recent Materials Developments for Thermal Energy Storage Based on Thermo-Chemical Reactions

Guest Editor:

Dr. Hartmut R. Fischer
Netherlands Organization for Applied Scientific Research - TNO, 5656AE Eindhoven, High Tech Campus 25, The Netherlands

Deadline for manuscript submissions:
closed (31 August 2021)

Message from the Guest Editor

Dear Colleagues,

I invite you to contribute to this Special Issue and to report on the latest developments in materials and materials technology in the field of thermal energy storage and connected technical systems. As we all know, in order to fight the urgent threat of climate change and to meet the objectives of Paris Agreement to limit the increase in the global average temperature to well below 2 °C from 2015, it is necessary to enforce efforts towards a (complete) transition from a fossil-fuel-based to a renewable-based energy society. In this transition, not only does the development of renewable energies and efficient energy systems need to be accelerated, but energy storage is also a key component to matching energy demand and energy supply in terms of time and dimension. Storage is particularly crucial for thermal energy systems, which often offer their highest peak during periods of low demand, with the high solar irradiation in summer and high heat demand in winter providing examples of a mismatch in energy supply.

For further reading, please visit the ***Special Issue website.***

applied sciences

IMPACT FACTOR 2.5

CITESCORE 5.3

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
𝕏@Applsci