## Special Issue

# Solid Looping Process for Low Carbon Energy

## Message from the Guest Editors

The solid looping process has been extensively researched in areas concerned with low-carbon energy, such as CO2 capture, H2 production, thermochemical energy storage and environmental protection at different temperatures. In addition, the design of reactors for solid looping processes is crucial to realize efficient CO2 capture, H2 production, energy storage, etc. This Special Issue intends to elaborate upon the latest research and stimulate the further development of solid looping technologies for the realization of low-carbon energy, with an emphasis on advanced solid materials and reactors. For this purpose, I am inviting the submission of high-quality research and review papers for this Special Issue. Topics of interest include, but are not limited to:

- Chemical looping/calcium looping for CO2 capture and H2 production;
- Alkali carbonates/Li-based materials/solid amines looping for CO2 capture;
- CaCO3/CaO, Ca(OH)2/CaO, Mg(OH)2/MgO, metallic oxide redox (e.g. Cu2O/CuO, Co3O4/CoO) cycles for energy storage;
- Reaction-regeneration cycles for environmental protection;
- Design of reactors for solid looping process.

#### **Guest Editors**

Prof. Dr. Yingjie Li

Prof. Dr. Chuanwen Zhao

Dr. Wengiang Liu

Dr. Cong Luo

Dr. Xiaotong Ma

## Deadline for manuscript submissions

closed (25 July 2023)



# **Energies**

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



mdpi.com/si/116748

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/ energies





# **Energies**

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



## **About the Journal**

## Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

## Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

## **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), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

## Journal Rank:

CiteScore - Q1 (Control and Optimization)

