



## New Vistas in Metal Hydrides and Related Materials

Guest Editor:

**Dr. Katsutoshi Aoki**

Graduate School of Science, The  
University of Tokyo, Tokyo, Japan

Deadline for manuscript  
submissions:

**closed (21 January 2022)**

### Message from the Guest Editor

Dear Colleagues,

Metal hydrides have been studied in a wide range of research fields from science to engineering. Hydrogen atoms form various bonding states with metal atoms: neutral hydrogen, positively charged proton, negatively charged hydride-ion, and covalently bonded hydrogen. As a result, a variety of physical and functional properties such as superconductivity, ionic conductivity, and hydrogen storage are realized in metal hydrides and hydride complexes.

The purpose of this special issue is to share the latest research trend on metal hydrides and related materials, and to inspire ideas for future development. We welcome contributions of original papers and reviews on pioneering techniques for synthesis, measurement, analysis, and application, and on the latest research results produced using these techniques.

Dr. Katsutoshi Aoki

*Guest Editor*





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), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (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](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](https://twitter.com/Applsci)