## **Special Issue**

# State of the Art and Progress in Metal-Hydrogen Systems, 2nd Edition

## Message from the Guest Editors

Hydrogen is being heralded as a future global energy carrier. The National Hydrogen Strategy of Australia has set a target for a clean, innovative, safe, and competitive hydrogen industry, with the aim of becoming a major exporter in the hydrogen industry by 2030. Varieties of novel materials have been investigated in recent decades and have provided many novel compositions, fascinating structures, and functionalities. Today, metal hydrides are being explored for a range of applications from hydrogen exports to remote-area power systems, solid-state battery thermochemical energy storage, and hydrogen diffusion. **Keywords:** 

- metal hydride
- hydrogen
- interstitial hydride
- ionic hydride
- complex hydride
- organic hydride
- hydrogen storage
- hydrogen diffusionthermochemical energy storage
- solid-state batteries
- solid-state electrolyte
- hydrogen production
- hydrogen purification

## **Guest Editors**

Dr. Terry Humphries

Dr. Mark Paskevicius

Prof. Dr. Craig Buckley

Prof. Dr. Hai-Wen Li

Prof. Dr. Torben R. Jensen

### Deadline for manuscript submissions

31 January 2026



# **Inorganics**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 4.1



mdpi.com/si/203548

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

mdpi.com/journal/inorganics





# **Inorganics**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 4.1



## **About the Journal**

## Message from the Editor-in-Chief

Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals.

Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

## Editor-in-Chief

Prof. Dr. Duncan H. Gregory

School of Chemistry, University of Glasgow, University Avenue, Glasgow G12 8QQ, UK

## **Author Benefits**

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q2 (Chemistry, Inorganic and Nuclear) / CiteScore - Q2 (Inorganic Chemistry)

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2025).

