

## Special Issue

# Critical Metal Occurrence, Enrichment, and Application

### Message from the Guest Editors

Critical metals, including rare metals (e.g., Li, Be, Rb, Cs, Nb, Ta, Zr, Hf, W and Sn), rare earth elements (e.g., La, Ce, Pr, Nd, MS, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Sc and Y), rare disperse elements (e.g., Ga, Ge, Se, Cd, In, Te, Re and Tl) and other strategic metals (e.g., PEG, Cr and Co) have been regarded as essential strategic resources for global high-technology applications.

However, critical metals are categorized as rare, associated and/or fine, and these critical metal characteristics constrain our understanding of their metallogenic mechanism and efficient utilization. The present Special Issue aims to gather papers on the occurrence of critical metals and enrichment and application research, especially on refractory elements, concerning geological, geochemical, and isotopic methods. Our aim is to offer research paradigms for critical metals and provide a key basis to improve and perfect metallogenic theory, as well as improve our knowledge around critical metals.

---

### Guest Editors

Prof. Dr. Changming Wang

School of Earth Sciences and Resources, China University of Geosciences (Beijing), Beijing 100083, China

Prof. Dr. Leon Bagas

Centre for Exploration Targeting, The Western University of Australia, Crawley 6009, Australia

---

### Deadline for manuscript submissions

closed (18 June 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/si/89468](https://mdpi.com/si/89468)

*Applied Sciences*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

[mdpi.com/journal/appls](https://mdpi.com/journal/appls)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### 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

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, 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), Inspec, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)