

## Special Issue

# Crystal Chemistry of Uranyl Compounds

### Message from the Guest Editor

Uranyl compounds are known as important constituents of spent nuclear fuel and oxidation zones of mineral deposits. Due to their importance for catalysis, ion-exchange, and absorption applications, understanding the trends in chemistry and structural diversity of alteration products of primary (or first formed) uranium compounds is important for predicting long-term behavior of radioactive wastes in geological repositories. The compounds of hexavalent uranium have witnessed increasing interest not only due to their essential role in energy production but also because of the particular abundance and non-triviality of their crystal chemistry. We invite you to participate in this Special Issue and to contribute your research results in the fields of uranyl compounds crystal chemistry, structural studies of uranium minerals and related synthetic compounds, structural topology and relationships between compounds, studies of their physical properties, descriptions of growth processes, and natural and synthetic uranyl compounds.

### Guest Editor

Dr. Evgeny Nazarchuk

Faculty of Geology, Saint Petersburg State University, 199034 Saint Petersburg, Russia

### Deadline for manuscript submissions

closed (1 July 2021)



## Crystals

an Open Access Journal  
by MDPI

Impact Factor 2.4  
CiteScore 5.0



[mdpi.com/si/44298](https://mdpi.com/si/44298)

*Crystals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[crystals@mdpi.com](mailto:crystals@mdpi.com)

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





# Crystals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.4  
CiteScore 5.0



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



## About the Journal

### Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

---

### Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University of Pisa, 56126 Pisa, PI, 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, Ei Compendex, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Crystallography) / CiteScore - Q2 (Condensed Matter Physics)