



*crystals*

an Open Access Journal by MDPI



## Growth and Evaluation of Crystalline Silicon (Volume II)

Guest Editor:

**Prof. Dr. Kozo Fujiwara**

Institute for Materials Research,  
Tohoku University, Sendai, Japan

Deadline for manuscript  
submissions:

**closed (31 July 2020)**

### Message from the Guest Editor

Crystalline silicon (single and multicrystalline) is widely used for substrates of solar cells. Further improvement of solar cell performance and reduction of production cost are still required, both at the present and in the future.

To realize a high-energy conversion efficiency of crystalline Si solar cells, the development of crystal growth technology is required. Furthermore, fundamental understanding of crystal growth mechanisms and defect formation, and evaluation of Si wafers are crucial.

We invite investigators to submit papers which discuss the development of high-quality crystalline Si for solar cells, including bulk ingots and thin films.

The potential topics include:

- Crystal growth of Si ingot;
- Crystal growth of Si thin films;
- Crystal growth mechanisms of Si;
- Defects formation and their property in Si;
- Evaluation of Si wafers;
- Property of solar cells based on crystalline Si;
- Materials of crucible for growth of Si ingot;
- Raw material;
- Crystal growth of new materials based on Si.



[mdpi.com/si/29643](https://mdpi.com/si/29643)

**Special** Issue



# crystals



an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Alessandra Toncelli**

Department of Physics, University  
of Pisa, 56126 Pisa, PI, Italy

## 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.

## 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](#), [CAPus](#) / [SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Crystallography*) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

---

*Crystals* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/crystals](http://mdpi.com/journal/crystals)  
[crystals@mdpi.com](mailto:crystals@mdpi.com)  
[X@Crystals\\_MDPI](https://twitter.com/Crystals_MDPI)