



an Open Access Journal by MDPI

# **Growth and Evaluation of Multicrystalline Silicon**

Guest Editors:

## Prof. Dr. Kozo Fujiwara

Institute for Materials Research, Tohoku University, Sendai, Japan

#### Prof. Dr. Chung-wen Lan

Department of Chemical Engineering, National Taiwan University, Taipei, Taiwan

#### Prof. Dr. Koichi Kakimoto

Research Institute for Applied Mechanics, Kyushu University, 6-1 Kasuga-koen, Kasuga Fukuoka 816-8580, Japan

Deadline for manuscript submissions: closed (15 July 2018)

## Message from the Guest Editors

Multicrystalline silicon (mc-Si) is widely used for substrates of solar cells. It is well understood that there is an advantage in the production cost in a mc-Si ingot in comparison to a single crystal Si, although the quality of mc-Si ingot should be improved further.

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

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

The potential topics include:

- Crystal growth of mc-Si ingot
- Crystal growth of mc-Si thin films
- Crystal growth mechanisms of mc-Si
- Defects formation and their property in mc-Si
- Evaluation of mc-Si wafers
- Property of solar cells based on mc-Si
- Crystal growth of new materials based on Si









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, CAPlus / 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 mdpi.com/journal/crystals crystals@mdpi.com X@Crystals\_MDPI