



Advances in Thin Film Solar Cells

Guest Editors:

Prof. Dr. Qi Hua Fan

College of Engineering, Michigan State University, East Lansing, MI 48824, USA

Dr. Guofu Hou

Nankai University, Institute of Photo-electronic Thin Film Devices and Technology, Tianjin, China

Deadline for manuscript submissions:

closed (30 April 2019)

Message from the Guest Editors

This Special Issue aims to bring together and share the up-to-date views and opinions of the past and current developments in thin film photovoltaic materials and solar cells. Suitable topics include experimental and theoretical findings related to thin film photovoltaic materials, devices, and fabrication techniques. We hope you can join us in this Special Issue by contributing critical reviews and/or original research articles.

The proposed topics include, but are not limited to:

- Thin film silicon solar cells
- CdTe thin film solar cells
- CuInGaSe₂ thin film solar cells
- Kesterites thin film solar cells
- Perovskites thin film solar cells
- Organic PV materials and devices
- GaAS thin film solar cells
- Quantum dot solar cells
- Two-dimensional materials for PV applications
- New device concepts and architectures for next generation of solar cells





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](#), [Ei Compendex](#), [CAPlus / SciFinder](#), and [other databases](#).

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

Contact Us

Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/crystals
crystals@mdpi.com
[X@Crystals_MDPI](#)