

Special Issue

Advances in Halide Perovskites

Message from the Guest Editors

Organic–inorganic halide perovskite materials have experienced tremendous interest from the research community due to their easy fabrication process and high-power conversion efficiency (PCE). Compared to silicon technology, perovskites have the potential to be employed on flexible substrates and semi-transparent windows, areas where silicon is absent. In less than 15 years, the best perovskite solar cell devices have passed the benchmark of 25.8% PCE, making this emerging technology competitive with conventional silicon cells. Efficiency is not the main challenge anymore in perovskite materials; the research community is now slowly shifting toward a more fundamental and crucial question, which is: “How to build perovskite cells with long-term stability”? In order to facilitate the commercialization of perovskite solar cells, their stability needs to be improved to compete with other technology on the market. In this Special Issue of *Crystals*, we would like to collect some pioneering works in the field that investigate innovative approaches to increase the stability of perovskite absorbers.

Guest Editors

Dr. Jérémy Hieulle

Department of Physics and Materials Science, University of Luxembourg, L-1511 Luxembourg City, Luxembourg

Dr. Zonghao Liu

Wuhan National Laboratory for Optoelectronics (WNLO), Huazhong University of Science and Technology (HUST), Wuhan, China

Deadline for manuscript submissions

closed (20 June 2024)



Crystals

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 5.0



mdpi.com/si/176485

Crystals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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, CAPlus / SciFinder, and other databases.

Journal Rank:

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