



crystals



an Open Access Journal by MDPI

Advances in Halide Perovskite Materials

Guest Editors:

Message from the Guest Editors

Dr. Rabi Khanal

Oak Ridge National Laboratory,
Oak Ridge, TN 37830, USA

Dr. Byungkyun Kang

Brookhaven National Laboratory,
Upton, NY 11973, USA

Dr. Dmitri Donetski

Department of Electrical and
Computer Engineering, Stony
Brook University, Stony Brook, NY
11794, USA

This Special Issue is aimed at designing advanced halide perovskite, inviting papers on, but not limited to, the following topics: design, synthesis, and characterizations of perovskite; from bulk- to nano- and zero-dimensional crystals; theoretical calculation for the structure; surface passivation; ligand engineering; post-synthesis treatment; self-assembly; tuning the luminescence; trap states; charge carrier dynamics; stability enhancement; and optoelectronic applications.

Deadline for manuscript
submissions:

closed (31 October 2022)



mdpi.com/si/71631

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, 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, Grosspeteranlage 5
4052 Basel, Switzerland

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

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