

## Special Issue

# Advances in Perovskite Ceramics, Crystals and Thin Films

### Message from the Guest Editors

The perovskite crystalline system is one of the most fascinating crystalline systems considering the wealth of functional properties that can be achieved with corner-connected anion octahedra. The synthesis and study of perovskite thin films has been a major field of research for about 30 years. We invite you to contribute to a Special Issue of *Crystals* dedicated to perovskite thin films. The aim is to combine papers on basic issues for readers starting in the field, and reviews on advanced topics providing an entry point to such specializations. The introductory section will cover rules governing perovskite crystal structure as well as its chemistry and structural phase transitions in relation to basic properties. It will also cover inorganic–organic hybrid perovskites and layered perovskites. The introductory section will also serve as a primer on the synthesis of perovskite thin films, treating specific issues related to the complexity of their thermodynamics and chemistry. Introductory review papers will help to prepare the ground for papers on advanced topics.

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### Guest Editors

Prof. Dr. Paul Muralt

Prof. Dr. Vasiliki Tileli

Dr. Lauren Garten

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### Deadline for manuscript submissions

closed (15 October 2021)



## Crystals

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*Crystals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[crystals@mdpi.com](mailto:crystals@mdpi.com)

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## 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.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli

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

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