



Frontiers of Applied Crystal Chemistry

Guest Editors:

**Prof. Dr. Galina M.
Kuz'micheva**

MIREA - Russian Technological
University (RTU MIREA), Moscow,
Russia

Dr. Irina A. Kaurova

MIREA - Russian Technological
University (RTU MIREA), Moscow,
Russia

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Message from the Guest Editors

By tuning their physical and chemical properties through a proper choice of the composition and structure, crystalline materials have been successfully designed to be applied in many demanding areas of contemporary science and technology. Prediction and obtaining of high-temperature superconductors and superhard materials, new laser and luminescent crystals, crystals with unusual properties, hydrogen energy materials, catalytic systems, and metal–organic polymers are bright results of applying the crystallochemical approach.

The potential topics include but are not limited to:

- Current methods for modeling and calculation of compositions and structures;
- Diffraction and complementary methods for studying the crystal structure of perspective materials;
- Crystallochemical approaches for designing new materials;
- Structural behavior by isomorphous substitution and intensive effects;
- Functional properties and their correlation with composition and structure of materials;
- Application of crystalline materials in well-known or new fields.





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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.

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Crystals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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