

Special Issue

Advances in Thermoelectric Materials 2023-2024

Message from the Guest Editors

This Special Issue on “Advances in Thermoelectric materials” collects exciting papers on new material designs, thermoelectric devices, new thermoelectric transport theory, etc. This Issue features articles on the development of next-generation thermoelectric materials and insight into how materials chemistry and condensed material physics have been exploited to modulate electronic and phonon transport, mechanical, and thermal stability, and energy conversion efficiency via high-throughput experiments and theoretical approaches.

The topics of the Special Issue will include, but are not limited to, the following:

Thermoelectric material and devices;

Te-free thermoelectricity;

Nanocomposite-based thermoelectricity;

Organic–Inorganic-based thermoelectric material and devices;

Thermoelectric flexible and transport properties;

Microstructurally induced electrical and thermal transport trends in thermoelectricity;

Synthesis-to-mechanism-driven thermoelectricity;

Two-dimensional thermoelectric material's growth and properties.

Guest Editors

Dr. Bushra Jabar

Dr. Adil Mansoor

Dr. Jamil Ur Rahman

Deadline for manuscript submissions

closed (31 December 2023)



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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.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
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