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## Computational and Theoretical Insights into Superconductors Advancements

Guest Editors:

**Dr. Xiaoyu Wang**

Department of Chemistry,  
University at Buffalo, Buffalo, NY  
14260, USA

**Dr. Francesco Belli**

Department of Chemistry,  
University at Buffalo, Buffalo, NY  
14260, USA

**Prof. Dr. Eva Zurek**

Department of Chemistry,  
University at Buffalo, Buffalo, NY  
14260, USA

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submissions:

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### Message from the Guest Editors

The phenomenon of superconductivity has the yet-untapped potential to revolutionize advancements in medicine, energy storage, transportation, and quantum computing. The well-understood mechanism of conventional BCS superconductivity has paved the way for theoretical predictions, computational methods, data science, and artificial intelligence (AI) to play a crucial role in advancing the field. Concurrently, the experimental confirmation of higher-temperature superconductivity has marked a transformative moment in the field, stimulating further theoretical studies. The present Special Issue on "Computational and Theoretical Insights into Superconductor Advancements" serves as a comprehensive report summarizing the tools and theories that currently define the field, and the recent progress that has been made therein, encouraging further studies in this area.



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# Special Issue



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## Editor-in-Chief

**Prof. Dr. Alessandra Toncelli**

Department of Physics, University  
of Pisa, 56126 Pisa, PI, 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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## Contact Us

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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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