

## Special Issue

# Photocatalytic Materials: Current Research and Future Directions

### Message from the Guest Editors

Photocatalysis has emerged as a promising and versatile technology at the forefront of sustainable science. As the demand for clean energy, environmental protection, and efficient chemical processes grows, photocatalytic materials play an increasingly vital role in energy conversion, particularly through solar-driven processes. The development of efficient photocatalysts with enhanced activity, stability, and selectivity is a central focus of current materials science research.

Recent advancements in nanostructured semiconductors, hybrid materials, and heterojunction engineering have significantly improved photocatalytic performance, bringing these technologies closer to real-world implementation. In this context, we are pleased to invite you to contribute to the Special Issue titled "Photocatalytic Materials: Current Research and Future Directions", published in Crystals (MDPI), with and serving as .

We welcome original research, short communications, and review papers that explore novel approaches, future directions, and interdisciplinary insights in this exciting field.

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### Guest Editors

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### Deadline for manuscript submissions

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## Crystals

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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

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