

## Special Issue

# Advances in Middle Infrared Laser Crystals and Its Applications

### Message from the Guest Editors

In the past twenty years, there has been a growing interest in middle infrared (mid-IR) laser crystals and its application to achieve the mid-IR laser radiations, which has benefited by the development of novel mid-infrared crystals and the improving quality of traditional mid-IR crystals. Moreover, these works have promoted the development of related technical applications. This Special Issue of the journal *Crystals* will focus on the most recent advances in mid-IR laser crystals, from materials to laser sources and applications. It will bring together the latest developments in novel mid-IR crystals, improvement of quality of mid-IR crystals, mid-IR nonlinear crystals, mid-IR lasers, as well as the application of mid-IR technology in spectroscopy, trace gas detection and remote sensing, optical microscopy and biomedicine. Welcome to submit the latest original research as well as forward-looking review papers to this issue.

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### Guest Editors

Prof. Dr. Xiaoming Duan

Dr. Renqin Dou

Dr. Linjun Li

Dr. Xiaotao Yang

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### Deadline for manuscript submissions

closed (30 November 2021)



## 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

Prof. Dr. Alessandra Toncelli  
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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