



## Graphene Mechanics Volume III

Guest Editor:

**Dr. Qing Peng**

Institute of Mechanics, Chinese  
Academy of Sciences, Beijing  
100190, China

Deadline for manuscript  
submissions:

**closed (28 February 2023)**

### Message from the Guest Editor

Dear Colleagues,

As a monatomic layer of carbon atoms in a honeycomb lattice, graphene possesses extraordinary mechanical properties in addition to other amazing properties. In this Special Issue, we will focus on cutting-edge studies of graphene mechanics from both theoretical and experimental investigations. In particular, this collection covers current areas of research that are concerned with the effect of production methods and/or the presence of defects upon the mechanical integrity of graphene, work related to the effect of graphene deformation upon its electronic properties and the possibility of employing strained graphene in future electronic applications, as well as reviews of experimental and theoretical results, to date, on mechanical loading of freely suspended or fully supported graphene.

This Special Issue on graphene mechanics aims to provide a unique and international forum covering a broad range of findings involving mechanical properties, mechanical loading, and engineering and applications. Scientists working from various disciplines are invited to contribute to this cause.





an Open Access Journal by MDPI

## 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.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [Inspec](#), [CAPus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Crystallography*) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

---

*Crystals* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/crystals](http://mdpi.com/journal/crystals)  
[crystals@mdpi.com](mailto:crystals@mdpi.com)  
[X@Crystals\\_MDPI](#)