Special Issue

Boron-Based Low-Dimensional Nanoclusters and Nanomaterials

Message from the Guest Editors

Over the past two decades, researchers have achieved significant progress in predicting, synthesizing and characterizing various forms of boron nanomaterials. These materials exhibit distinct bonding configurations due to their low dimensionality, contrasting with the icosahedral structures found in bulk boron crystals. This structural diversity leads to intriguing physical and chemical properties, driving interest in boron nanomaterials within the materials science community.

Of particular note is the recent experimental realization of borophene. This breakthrough was achieved by depositing evaporated boron atoms onto Ag(111) surfaces under ultra-high vacuum conditions. Borophene's emergence has spurred extensive theoretical and experimental investigations, including a wide range of applications.

This Special Issue aims to comprehensively cover the theoretical design, experimental synthesis, characterization and understanding of the unique physical and chemical properties of boron-based nanoclusters and nanomaterials. Through this exploration, we seek to further elucidate the potential of boron nanomaterials for diverse applications in materials science and beyond.

Guest Editors

Dr. Wanlu Li

1. Aiiso Yufeng Li Family Department of Chemical and Nano Engineering, University of California San Diego, La Jolla, CA 92093, USA
2. Program of Materials Science and Engineering, University of California San Diego, La Jolla, CA 92093, USA

Prof. Dr. Philippe Miele

Institut Européen des Membranes (IEM-UMR5635 ENSCM, UM, CNRS), Universite de Montpellier, Place Eugene Bataillon, F-34095 Montpellier, France

Deadline for manuscript submissions

Inorganics

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 4.1

mdpi.com/si/203843

Inorganics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
inorganics@mdpi.com

mdpi.com/journal/inorganics

Inorganics

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 4.1

mdpi.com/journal/inorganics

About the Journal

Message from the Editor-in-Chief

Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

Prof. Dr. Duncan H. Gregory
School of Chemistry, University of Glasgow, University Avenue, Glasgow G12 8QQ, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Inorganic and Nuclear) / CiteScore - Q2 (Inorganic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2025).