Special Issue

Advances in Polyoxometalate Chemistry: Structure, Synthesis, and Applications

Message from the Guest Editors

Polyoxometalates (POMs) are a class of negatively charged molecular metal-oxo clusters characterized by well-defined structures, elegant geometries, and nanoscale dimensions, representing a significant branch of inorganic chemistry known as polyoxometalate chemistry. Since the 1980s, advancements in synthesis and characterization techniques have rapidly expanded POM research from structural synthesis to applications in catalysis, energy, magnetism, photoelectric devices, materials science, medicine, and biology. In recent years, the integration of POMs with emerging materials, such as zeolites, metal–organic frameworks (MOFs), and graphene, has infused the field with renewed vitality. After more than two centuries of development, POM chemistry has now entered a new era brimming with unforeseeable innovations.

In this Special Issue, we expect to focus on the innovative breakthroughs of POMs in structural design, synthetic strategies, and fields for their application by publishing original research articles and comprehensive reviews and systematically presenting the latest theoretical progress and technological development in polyoxometalate chemistry.

Guest Editors

Dr. Shenzhen Chang

Dr. Yaru Gong

Dr. Yanhong Chen

Deadline for manuscript submissions

30 September 2025

Inorganics

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 4.1

mdpi.com/si/233861

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).