

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

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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

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