Special Issue

Polyborates: Applications, Synthesis, and Structural and Physical Properties

Message from the Guest Editor

Polyborates are a class of inorganic compound (salt) containing boron atoms within their anionic moieties. These boron atoms are bound solely to oxygen and can adopt either trigonal-planar or tetrahedral connectivity. The cations of these salts can be 'naked' metals (e.g. Na+), organic, or transition-metal complexes and furthermore, polyborates may also be anhydrous or hydrated. Consequentially, polyborates show immense solid-state structural diversity with 'hydrogen-bonded insular systems' and 'supramolecular polymeric systems' well represented within the class. Polyborates have unique properties and a few have been used in the production of a wide variety of bulk products such as insulation fiberglass, specialty glasses, enamels and glazes, fertilizers, biocides, fire retardants, detergents. The intent of this Special Issue is to focus on the most recent advances in polyborate chemistry ranging from fundamental aspects to current and potential applications. Full papers, communications, and reviews on these topics are welcome.

Guest Editor

Prof. Dr. Michael A. Beckett
School of Environmental and Natural Sciences, Bangor University, Bangor LL57 2UW, UK

Deadline for manuscript submissions

closed (31 December 2019)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/19639

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

mdpi.com/journal/molecules

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/journal/molecules

About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

MDPI