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Polyborates: Applications, Synthesis, and Structural and Physical Properties

Guest Editor:

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

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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.













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Editor-in-Chief

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

Message from the Editor-in-Chief

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