



Supramolecular Anion Recognition: Principles and Applications

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Message from the Guest Editors

The field of anion recognition is one of the fundamental areas of supramolecular chemistry research. Progress is being continuously made in the synthesis of anion receptors based on a wide range of host molecules, which take advantage of a myriad of functional groups to engage in non-covalent interactions with their target anionic guest. The wide variety of host architectures ensures a rich vein of research that continues apace. Moreover, fundamental research in this area has led to many potential applications in areas such as anion sensors, anion transporters, anion-responsive materials, anion-induced molecular assembly, organocatalytic processes involving anion complexation, and even anion receptors as new drug candidates.

The aim of this Special Issue on “Supramolecular Anion Recognition: Principles and Applications” is to highlight and summarize the most innovative current research regarding the synthesis, host–guest properties, and new applications of novel anion receptors. The content will provide guidance for the future design of anion receptors and their potential applications across the chemical and biological sciences.





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