

Special Issue

Supramolecular Anion Recognition: Principles and Applications

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.

Guest Editors

Dr. Robert B. P. Elmes
Dr. Stephen Butler
Dr. Nick Fletcher

Deadline for manuscript submissions

closed (31 May 2023)



Chemistry

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 3.9



mdpi.com/si/97896

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

[mdpi.com/journal/
chemistry](https://mdpi.com/journal/chemistry)





Chemistry

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 3.9



[mdpi.com/journal/
chemistry](https://mdpi.com/journal/chemistry)



About the Journal

Message from the Editor-in-Chief

Chemistry is a broad science and in *Chemistry* we hope to showcase the excellence of this fundamental discipline. Open Access publishing allows scientists to publish their research in a way that reaches the widest possible audience. In *Chemistry* we aspire to build a genuinely transdisciplinary culture in which communication of results between scientists active in different areas and between scientists and the broader public highlights the benefits that chemistry can bring to society. We encourage papers on all aspects of chemistry ranging from astrochemistry to zoochemistry, with everything in between. We also very strongly welcome inter- and multidisciplinary papers which expand the subject beyond its present horizons. We also welcome themed issues collecting reviews and state-of-the-art papers in topical areas of chemical science.

Editor-in-Chief

Prof. Dr. Igor Alabugin
Department of Chemistry and Biochemistry, Florida State University,
Tallahassee, FL 32306, USA

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), CAPlus / SciFinder, and other databases.

Reliable service:

rigorous peer review and professional production.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15 days after submission; acceptance to publication is undertaken in 4.2 days (median values for papers published in this journal in the second half of 2025).