



## **Polysaccharide Chemistry—a Tool for Novel, Sustainable, and Advanced Products and Materials: A Themed Issue in Honor of Prof. Dr. Thomas Heinze**

Guest Editor:

**Prof. Dr. Pedro Fardim**

Department of Chemical  
Engineering, University of  
Leuven, Celestijnenlaan 200F,  
3001 Leuven, Belgium

Deadline for manuscript  
submissions:

**closed (31 December 2021)**

### **Message from the Guest Editor**

Dear Colleagues,

Polysaccharides, fascinating biopolymers and the most common organic compounds on earth, possess amazing molecular and supramolecular structures. Chemical modification, including unconventional methods for the modification of polysaccharides, has opened new avenues to the development of advanced and sustainable materials. Advanced analytical tools have been established to obtain real structure–property relationships.

This Special Issue aims to honour the outstanding contribution of Prof. Thomas Heinze to the field of polysaccharide chemistry and polysaccharide-based materials. Thomas Heinze is a Professor of Organic Chemistry at the Institute of Organic and Macromolecular Chemistry, Friedrich Schiller University of Jena, Germany. From 2010 to 2014, he also worked as a Finland Distinguished Professor at the Åbo Akademi University, Finland. Prof. Heinze has made many contributions to the research of polysaccharides at large, including concepts for polysaccharide chemistry, homogeneous phase reactions, nanostructuring of polysaccharides, and characterization by advanced analytical tools.





an Open Access Journal by MDPI

## 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

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**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)

## Contact Us

*Molecules* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/molecules](http://mdpi.com/journal/molecules)  
[molecules@mdpi.com](mailto:molecules@mdpi.com)  
[X@Molecules\\_MDPI](https://twitter.com/Molecules_MDPI)