



an Open Access Journal by MDPI

Thermodynamics of Organic Materials

Guest Editors:

Dr. Carlos Lima

Research Centre in Chemistry (CIQUP), Institute of Molecular Sciences (IMS), Department of Chemistry and Biochemistry, Faculty of Sciences of University of Porto, P-4169-007 Porto, Portugal

Dr. Ana Rita Almeida

Research Centre in Chemistry (CIQUP), Institute of Molecular Sciences (IMS), Department of Chemistry and Biochemistry, Faculty of Sciences of University of Porto, P-4169-007 Porto, Portugal

Deadline for manuscript submissions:

closed (31 December 2024)

Message from the Guest Editors

Dear Colleagues,

The molecular thermodynamic approach is a crucial tool to understand why and how organic compounds become organic functional materials.

This Special Issue seeks to highlight the path that goes from the molecular understanding of organic compounds to their performance as functional materials. To this end, we will be welcoming contributions addressing the following topics: a) Synthesis and characterization of organic materials; b) Thermodynamic properties as determined by experimental and/or computational methods; c) Rationalization of molecular properties of organic compounds in view of their application in organic semiconductor devices and as functional materials. By bringing together the expertise from complementary areas under a “synthesize/understand/apply” philosophy, this Special Issue builds on the notion that the best guide for successful technology is fundamental knowledge.



mdpi.com/si/144884

Special Issue



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 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.

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

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](#)